## Fixed Private Capital in the United States

- Revised Estimates, 1925–81
- Estimates by Industry, 1947-81

BEA has prepared revised annual estimates of fixed private capital stock.3 The revised estimates represent a considerable improvement over previous BEA estimates of fixed private capital. First, the estimates for the entire 1925-81 period have been revised because new information has been incorporated into the perpetual inventory calculations used to derive them. The new information is on service lives, allocations of investment by major industry group and legal form of organization, and intersector transfers of used assets. Second, for 1947industry detail has been expanded. from three major industry groups (farms, manufacturing, and nonfarm nonmanufacturing) to 60 industries (essentially the two-digit industry detail of the 1972 Standard Industrial

Norz.—Helpful comments on earlier drafts of this article were provided by John E. Cremeans, Edward F. Denison, Jack G. Faucett, Martin L. Marimont, and Jerome A. Mark.

1. Other parts of BEA's work on measuring the Nation's langible wealth have provided annual estimates of durable goods owned by consumers and fixed capital owned by governments and annual and quarterly estimates of business inventories. Future research will provide estimates of inventories owned by governments and consumers.

Estimetes of durable goods owned by consumers and fixed capital owned by governments for the period 1925-79 are found in U.S. Department of Commerce, Bureau of Economic Analysis, Fixed Reproducible Tangible Wealth in the United States, 1925-79 (Washington, DC: U.S. Government Printing Office, Merch 1952). Revised and updated estimates for the years since 1973 are available in the following issues of the Survey of Current Business: 1973-79, October 1982; 1980-83, August 1984.

Estimates of the stock of business inventories annually for the years since 1828 and quarterly for the years since 1828 and quarterly for the years since 1947 are found in Shirley F. Loffus, "Stocks of Business Inventories in the United States, 1928-71," Survey 52 (December 1972):29-32, Revised and updated estimates for the years since 1947 are found in the following sources: 1947-76, U.S. Department of Commerce, Bureau of Economic Analysis, The National Income and Product Accounts of the United States, 1929-76: Statistical Tubies (Weshington, DC: U.E. Government Printing Office, 1981); 1977-79, Survey, July 1982; 1980-83, Survey, July 1984. Inventory estimates for the period since 1988 appear in the regular national income and product accounts tables in the Survey; the current-dollar series are in table 5.10, and the constant-dollar series are in table 5.11.

Classification). Moreover, the validity of the perpetual inventory estimates has been tested by comparisons with independently derived estimates of fixed private capital based on book value data from the 19?? economic censuses and the Internal Revenue Service (IRS) Statistics of Income.

The industry capital stock estimates provide information for several types of analyses. They may be used to determine the relations between capital and employment and also between capital and output, and to analyze how these relations differ by industry over time. They may also be used to derive estimates of capital productivity and total factor productivity by industry, and they are useful in assessing the adequacy of capital in particular industries. They also provide a measure of how the industrial

The stock estimates in this article were prepared using the investment flows presently published in the national income and product accounts (NIPA's). These flows will be revised in the comprehensive revision of the NIPA's scheduled for publication at the end of 1985. The stock estimates will then he revised to incorporate the new flows.

The gross and net stock estimates shown in this article, together with the associated estimates of depreciation and discards, the investment flows used to derive them, and estimates of gross and net stocks, depreciation, and discards in historical-cost valuation are available on a computer tape. To order this tape, write to the National Income and Wealth Division (BE-54), Bureau of Economic Analysis, U.S. Department of Commerce, Wash-ington, DC 20230, Please specify BEA Industry Capital Stock Data Tape and include remittance for \$200.00 payable to "Economic and Statistical Analysis, BEA."

In 1986, BEA will publish revised and updated estimates of the stock and associated series, together with estimates of average ages of gross and net stocks and a more detailed statement of sources and methods. Availability of this publication will be announced in the Survey of Current Business.

mix of capital has changed over time and, consequently, a measure of one determinant of industry growth.

With the expansion of the industry detail, two characteristics of BEA's capital stock estimates have taken on increased importance. First, leased capital assets are recorded in the stock of the lessor (owner) rather than in that of the lessee (user). Leased assets are recorded in this manner in order to be consistent with the national income and product accounts (NIPA) measures of product and income by industry, which record the income and depreciation associated with these assets in the industry of the owner.<sup>2</sup>

Second, the industrial classification of the BEA stock estimates is based on the 1972 Standard Industrial Classification, and data for the estimates are for "establishments" rather than 'companies." Establishments, as defined for the Standard Industrial Classification, are economic units, generally at a single physical location, where business is conducted or where services or industrial operations are performed. Companies are one or more establishments owned by the same legal entity or group of affiliated entities. Establishments are classified into an SIC industry on the basis of their principal product or service, and companies are classified into an SIC industry on the basis of the principal SIC industry of all their establishments. Because large multiestablishment companies typically own establishments that are classified in different SIC industries, industrial distributions of the same item can be significantly different. For residential capital, each dwelling is considered to be an establishment; farm dwellings

For "rate harbor" lower (authorized by the Economic Rocavery Tax Act of 1981), in which the lesses retains contendify of the need and merely transfers tox lengths to the lessor, the need is recarded in the stock of the lesses.

Table A.—Comparison of Revised and Previous BEA Estimates of Constant-Dollar Grozs Stocks of Fixed Nonresidential Private Capital, Selected Years, 1925-81

: [Ratio of revised estimates to previous estimates]

| Major industry group and legal form of organization                         | 1925                | 1929                 | 1989                 | 1948                 | 1989                 | 1978               | 1977                 | 1981                 |
|---|---------------------|----------------------|----------------------|----------------------|----------------------|--------------------|----------------------|----------------------|
| product channels from mirr schan sugar at differittoribit                   | 1404                | 1000                 | 1707                 |                      |                      | 1010               |                      |                      |
| All infestries to(s)  | 1/80                | 1.09                 | 1.12                 | 30.0                 | 1.05                 | 1.85               | 1.06                 | 1,46                 |
| By major Industry gretty: Furns Menufactoring Nonmenufecturing              | 1,08<br>-87<br>1,17 | 1.01<br>88<br>1.19   | .98<br>.89<br>1.27   | .97<br>.89<br>1.16   | .98<br>.99<br>1.08   | 94<br>1.08<br>1.07 | .95<br>1,06<br>1,07  | 1.04<br>1.05         |
| By legal form of organization:<br>Carporalta<br>Noninancial<br>Moncorporals | L.06                | 1.06<br>1.05<br>1.20 | 1.09<br>1.68<br>1.21 | 1,03<br>1.92<br>1.14 | 1.05<br>1.05<br>1.03 | L04<br>L07<br>L04  | 1.07<br>1.08<br>1.02 | 1.08<br>1.08<br>1.00 |

Nove.—Years aboven are the beginning and end of series, yearsade closest to the peaks of the National Sureau of Economic Research reference cycle, and 1977.

owned by farm operators are classified in the farm industry, and all other dwellings are classified in the real estate industry.

In this article's first section, the revised stock estimates for 1925-81 are compared with the previous BEA stock estimates. Next, the derivation of the investment flows used to derive the stock estimates, including the expanded industry detail for 1947-81, is described. Then, the derivation of the stock estimates from the investment flows is described. Finally, comparisons between the revised stock estimates and two sets of independently derived book value estimates are described.

Following the text of the article, estimates of current-dollar gross and net stocks of fixed private capital by industry for 1947-81 are shown, separately for nonresidential and residential capital, in tables 1 and 2. Corresponding stocks in constant (1972) dollars are shown in tables 3 and 4. Current-dollar gross and net stocks of fixed nonresidential private capital by major industry group and legal form of organization for 1925-81 are shown, separately for equipment and structures, in tables 5 and 6. Corresponding stocks in constant (1972) dollars are shown in tables 7 and 8.

## Comparison of Revised and Previous BEA Stock Estimates

Both the revised and previous BEA stock estimates were derived using the perpetual inventory method and investment streams based on the same NIPA investment flows for the years since 1929; however, the two sets of estimates of constant-dollar gross stocks differ, as can be seen in table A. First, the revised total stock estimates are generally higher, because of the introduction of more detailed and more accurate service lives

that are generally longer than those used in previous BEA studies. The greatest proportionate effect of the new lives is for 1934-45, when investment was less than discards. With the resumption of substantial investment after 1945, this effect became less pronounced. Second, the revised corporate estimates are generally higher, because of the introduction of more detailed and more accurate allocations of investment by legal form of organization.

By major industry group, the comparisons in table A show considerably different patterns over the 1925-81 period. For farms for the years since 1929, the revised estimates are lower than the previous estimates because of the introduction of a shorter service life for the largest category of farm equipment (agricultural machinery, except tractors). For manufacturing, the revised estimates are lower than the previous estimates through the 1960's and higher after 1970. The lower estimates through 1969 resulted from the introduction of lower investment in structures by manufacturing industries for the years before 1947; the higher estimates after 1970 occurred because of the longer service lives. For nonfarm nonmanufacturing, the revised estimates are higher for all years, primarily due to the longer lives and also to the shift of pre-1947 structures investment flows from manufacturing to nonfarm nonmanufacturing; these factors more than offset the effect of the introduction into the revised estimates of transfers of privately owned transit systems and public utilities to government ownership.

By legal form of organization, the comparisons in table A show that, at the all-industry level, both the revised corporate and noncorporate estimates are higher than the corresponding previous estimates; however, the

amount of the difference between the two sets of estimates varies considerably over the 1925-81 period. Several factors account for the variation. First, shifting some pre-1947 investment from manufacturing, which is dominated by the corporate form of organization, to nonfarm nonmanufacturing, which is less corporate, lowers corporate stocks and raises noncorporate stocks through the 1960's. Second, introducing shorter service lives for the farm industry, which is largely noncorporate, lowers noncorporate stocks, especially since 1960. Third, introducing longer service lives in the manufacturing and public utilities industries, which are largely corporate, raises corporate stocks for all years. Fourth, introducing new legal-form allocations increases the corporate portion of investment in most industries, thus raising corporate stocks over time. Finally, introducing estimates of government purchases of privately owned transit systems and public utilities, which are largely corporate, lowers corporate stocks for the postwar period.

## Derivation of Investment

Overview

The perpetual inventory method used to derive the stock estimates starts with investment flows and obtains the gross capital stock for a given year by cumulating past investment and deducting the value of investment that has been discarded, based on average service lives and retirement patterns. The net capital stock is obtained by deducting the cumulative value of depreciation from the gross stock.

The investment flows used to implement the perpetual inventory method

were developed in the following manner. First, flows were derived for investment in new capital by type of asset for each industry and for transfers of used assets between private business and other types of owners. Next, the flows for each industry for investment in new and used assets were distributed by legal form of organization. Finally, the investment flows by type of asset, industry, and legal form of organization were deflated to constant (1972) dollars.

The investment flows of asset types by industry were developed especially for this study, because they had to meet several requirements not all met by data available from other sources: the all-industry totals for each type of asset had to equal the NIPA flows for that type of asset, and the industries had to be defined on an establishment and ownership basis. The level of asset detail that was developed permitted the use of new detail on service lives in deriving the stock estimates and the use of more detailed price indexes in deriving the constantdollar stock.

Series on investment estimates by industry are available from three major sources. The first series, from BEA's plant and equipment expenditures survey, provide annual data on investment in nonresidential capital by nonfarm industries, but these data are classified on a company basis, are not consistent with the NIPA investment totals (mostly due to industry

Table B .- Data Sources for Estimates of New Nonresidential Investment by Industry

| Industry                                     | Years before 1947  | 1947 and later years  | [edustry   | Yapıy before                | 1947 and later years 1947  |
|--|--|---|--|-----------------------------|--|
| Agriculture, farestry, and disher-           |  |   | Communication: Telephone and telegraph                       | MIDA COND HODA 10           | MIDA COTO 1950A  |
| Panne  | USDA, Gallman  | USDA  | Radio and television broadcast                               |                             | P&E  |
| Agricultural services, forestry,             | USDA   | PAE   | ing.   | 1                           | ,  |
| and fighering                                |  |   | Electric, gas, and conditory serv-<br>ices:                  |                             |  |
| Gebeg  | Historical Statistics, camera<br>of magnifectures            | Commun. of pointeral implus-<br>trins (1964, 1958, 1968,                    | Biectric services  | USDA, Ulmer, NIPA, CPIP     | DOB, USDA, NIPA  |
|  | n) markmarket  | 1967, 1972, 1877), ES.  | Geo services   | Ulmer, NIPA, CPIP           | DOB, NIPA  |
|  |  | P&E   | Sandbury services  | Ulmer                       | P&E  |
| Construction                                 | Boddy & Gart, Historical<br>Statistics                       | Conses of construction in-<br>dustries (1967, 1972, 1977),<br>28, P&E       | Wholesale trade  | Beddy & Gort                | Census of wholesale trade<br>(1955, 1963, 1967, 1973<br>1977), Page  |
| denytoring                                   | Chawner, NIPA, CPIP. Historical Statistics, Kuzneta,<br>Shaw | Congres of manufactures (1947, 1964, 1968, 1968, 1969, 1967, 1971), ASM, ES | Relati trade   | CPIP, Historical Statistics | General of retail trade (196<br>1963, 1967, 1972, 1977<br>P&E        |
| Transportation and public utili-<br>lies:    |  |   | Plagnos, invergace, and real citals:                         |                             |  |
| Transportation:                              | ·  |   | Pioper and Instruction                                       |                             | PAR, SOL TA, FDIC  |
| Railroad transportation                      |  | 10C, NIPA, 7A   | Real estate  | SOL, CPIP                   | P&E, TA, SOF   |
| Local and interprises power-<br>per transit. | CPIP<br>Ulmer, CPIP  | ICC, TA, CPIP   | Services, except health, legal, edu-<br>cational, and other. | <i>SOI</i> , TA             | Census of service industrie<br>(1968, 1982, 1987, 1972<br>1977), P&E |
| Trucking and warehousing                     | MPA, Ulper, TA   | ICC, tenstin of wholesale<br>trade (1958, 1968, 1967,<br>1972, 1977)        | Houlth, legal, adocational, and other partices.              | SOI, TA                     | PAE ·  |
| Water transportation                         | NIPA, Historical Statistics                                  | NIPA, ICC   |  |                             |  |
| Transportation by air                        |  | NIPA, CAB   |  |                             | l  |
| Pipelines, except naturel ges                |  | ICC, NIPA   |  |                             |  |
| Transportation services                      | NIPA, ICC, CPIP, Ulmer                                       | TCC   |  |                             |  |

Merchant Wholesalers only. U.S. Department of Commerce, Barcasu of the Commer. Annual Striet of Manufactures (Washington, DC: U.S. Government Printing ASM Reyford Boddy and Michael Gort, "Capital Expenditures and Capital Stocks," Annals of Economic and Social Measurement 54 (1973).
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Robert E. Gailman, "Commodity Output, 1839-1839," and Marvin W. Towns and Wayse D. Rommagen, "Form Gross Product and Gross Insustation." in the Nipsterial Contary," both in Trends in the American Economy in the Nipsterial Contary, Conference on Research in Income and Wealth, Studies in Income and Wealth, vol. 24 (Polynosium: Princeton University Press for National Bureau of Economic Research, 1980). Gallman

Historical Statistics

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U.S. Department of Competers, Surean of the Consus. Historical Statistics of the United States, Columbi Three to 1970 (Washington, DC, U.S. Government Printing Office, 1975).

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1839-76: U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts of the United States.

1939-76: Statistical Tables (Washington, D.C. U.S. Gevernment, Printing Office, 1961); 1976-72: Survey 62 July 1963); 1979-31; Survey 63 July 1963). See the following tables: extremt-dollar expenditures, tables 54 and 5.0; constant-dollar expenditures, tables 54 and 5.0; constant-dollar expenditures, tables 5.6 and 6.7; implicit price deflates, tables 7.19 and 7.20.

ove and o.1; implicat price deflators, tables 7.19 and 7.20.

George R. Green and Marie P. Hertzberg, "Revised Estimates of New Plaint and Equiphysis Expanditures in the United States, 1977-77," Survey 50 (Cetober 1990; 24-59; Michael J. McKelver, "Constant-Dodar Estimates of New Plant and Equipment Expanditures in the United States, 1971-58," Survey 61 (September 1981); 26-41; and Eugene P. Seekin and David F. Sullivias, "Exvised Estimates of New Plant and Equipment Expanditures in the United States, 1947-59," Survey 65 (February 1995); 16-47.

Marie M. Charles C. Marie P. Survey 1995; 16-47.

William H. Staw, Volue of Commodity Guigus Since 1865 (Princeton, Princeton, University Press for Notional Bureau of Economic Re-

U.S. Department of the Treasury, Internal Revenue Service, Statistics of Income Corporation Income Fox Returns (Washington, DC: U.S. Gotersment Printing Office, annual).

Trade sesociation data.

Malville 4. Ulmer, Capital in Transportation, Communications, and Public Utilities: In Formulan and Financing (Princeton: Princeton University Press for National Bureau of Beanstale Research, 1960).

U.S. Department of Agriculture, Beneaute Research Service, Paret Income Statistics (Washington, DC: U.S. Government Printing Office, annual).

coverage), and provide only a two-way split by type of asset-total equipment and total structures. The second series, collected by the Census Bureau for the industries covered by the economic censuses (mining, construction, manufacturing, wholesale retail trade, and selected services), provide data on investment, but these data are available only quinquennially and also provide only a two-way split into total equipment and total structures (as does the Census Bureau's annual survey of manufactures). The third series, capital flow tables prepared by BEA as part of the input-output (I-O) tables, provide distributions of investment by type of asset for each I-O industry, but the data are available only for 1963, 1967, and 1972; are on a use basis rather than an ownership basis; and are classified by I-O industry rather than by NIPA industry.3

The investment flows for nonresidential capital were derived in several steps in this study. First, annual investment control series for total equipment and for total structures were derived for each industry from the sources given in table B. Second, the flows for investment by type of asset were derived by modifying the NIPA series on fixed investment. Because the all-industry totals for equipment and those for structures did not equal the corresponding NIPA totals, they were adjusted to equal them. The adjustment process was based on BEA's assessment of the relative quality of the various sources of industry investment data and on indications from the capital flow distributions that the investment totals for certain industries for certain years were not consistent with the NIPA totals for these years for the types of assets owned by those industries.

Finally, modified capital flow tables for 1963, 1967, and 1972 were used to derive the investment data by type of asset for each industry. The distributions from these tables were modified from a use to an ownership basis and from an I-O to a NIPA industry classification. For the years between 1963 and 1972 (except 1967), interpolations between the capital flow tables were used to distribute the NIPA flows by type of asset. For other years, the

nearest capital flow table was used to distribute the NIPA flows by type of asset. In this step, an iterative procedure was used to derive the individual industry investment flows by type of asset so that (1) the asset flows at the all-industry level equaled those of the NIPA's, and (2) the industry investment totals for equipment and structures were as close as possible to those derived from the independent industry sources.

#### New nonresidential investment

This section describes the derivation of the investment flows for the detailed industry stock estimates beginning in 1947. In order to derive these stock estimates, it was necessary to derive control totals for investment flows in new nonresidential capital by industry beginning in 1921 for equipment and in 1900 for structures. Also, to derive stock estimates by major industry group for 1925-46, it was necessary to derive investment control totals for farms, manufacturing, and nonfarm nonmanufacturing going back into the nineteenth century, as in previous BEA studies. The data sources used to derive both of these sets of investment flows are given in table B.

Investment controls by industry.— The industry investment control totals were derived from several sources—some provided information for selected benchmark years and others for post-1947 interpolations between and extrapolations from the benchmark estimates. Because many of these sources began in 1947, other sources were used to extrapolate the control totals prior to 1947.

The source data for each industry were adjusted so that the control totals conformed to the concepts desired. The adjustments related to industrial classification, establishment basis, central administrative offices and auxiliaries, ownership basis, and employee-owned autos.

- Industrial classification. Establishment-based source data not on the basis of the 1972 Standard Industrial Classification were converted to this basis.
- Establishment basis. Where necessary, the plant and equipment expenditures survey (P&E) and Statistics of Income series were adjusted from a company basis to an establishment basis.

- 3. Central administrative offices and auxiliaries. For the mining, construction, and manufacturing industries, the capital expenditures data from the economic censuses were adjusted to include capital expenditures by central administrative offices and auxiliaries, using data from the Census Bureau's Enterprise Statistics.
- Ownership basis. To derive industry stocks by establishment industry on an ownership basis rather than a use basis, several conventions were adopted. First, assets owned by one industry and leased to other industries were classified in the stock of the establishment industry owning the assets. Second, for assets used in establishments of multi-industry companies where the legal owner of the assets was the parent company, the assets were classified in the industry of the establishment where they were used. Third, assets owned by manufacturers' sales branches and offices were classified in the wholesale trade industry. Finally, assets owned and used by nonprofit institutions serving individuals were classified in the real estate industry; this convention was adopted to maintain consistency with the NIPA classification of these assets.
- 5. Employee-owned autos. The basic source data for each industry did not include expenditures for autos owned by individuals and used wholly or partly for business purposes; therefore, the expenditures attributable to business use were calculated and included, as discussed later in the section on autos.

After the industry investment controls for equipment and structures were estimated, they were adjusted judgmentally so that the all-industry totals for equipment and for structures were equal to the equipment and structures totals of the NIPA's. In this process, BEA assumed that the data from the economic censuses were the most accurate. Therefore, controls for census-covered industries were adjusted only if they differed significantly from the totals implied by the NIPA estimates for asset types owned by these industries. The remaining

BEA's capital flow table for 1977 is in preparation and will be incorporated into the revised and opdated stock estimates to be published in 1986.

differences were allocated to the remaining industries so that the individual industry totals for a particular year were consistent with the NIPA totals for the types of assets owned by these industries.

Investment controls by type of asset.—For the years beginning with 1929, the flows for investment in new nonresidential capital by type of asset were derived from the NIPA series on the nonresidential fixed investment component of gross private domestic investment. For the years before 1929, the NIPA flows were extrapolated back into the nineteenth century based on data from various public and private sources.

The investment series for electric light and power structures was modified to produce stock and depreciation estimates consistent with the availability of the capital asset to contribute to income and output and with the timing of tax depreciation. The flows were modified from a "valueput-in-place" basis-i.e., the value of new construction put in place in a particular year, both on plants completed or under construction in that year-to a "when-completed" basisi.e., the value of plant actually completed and put into service during the year. Flows for other types of structures were not modified, because the the value of the uncompleted plant has been both small and stable relative to the value of completed plant. For electric light and power structures, however, the value of uncompleted plant has been large and has been rising sharply relative to the value of completed plant over the past two decades.

Distribution by type of asset and industry.—The NIPA flows for investment in new nonresidential capital by type of asset were distributed by industry using data from BEA's capital flow tables for 1963, 1967, and 1972.4 However, before the capital flow tables were used, they were modified because they provided the distribution

of assets on an I-O industry classification basis and on a use basis. First, investment by nonprofit institutions serving individuals was reclassified from the services industries to the real estate industry, and force-account construction was reclassified from the construction industry to the industry performing the construction. Second, the distributions were converted from a use to an ownership basis, using unpublished data from the I-O studies. The two modifications yielded the detailed type of asset by industry distributions for equipment and structures for 1963, 1967, and 1972.

For years not covered by capital flow tables, the NIPA investment flows by type of asset were distributed by industry as follows. As a first approximation, each type of asset was distributed by industry based on modified capital flow distributions: for 1962 and all prior years, the 1963 table; for 1964-66, interpolations between the 1963 and 1967 tables: for 1968-71, interpolations between the 1967 and 1972 tables; for 1973 and all subsequent years, the 1972 table. Second, the asset types allocated to each industry were summed to totals for equipment and for structures within the industry; these totals were then adjusted to equal those for the industry controls. Third, the industry estimates by type of asset, from the previous step, were summed by type of asset and then adjusted to equal the NIPA totals for each asset type. Finally, these last two steps were repeated until the asset investment totals equaled the NIPA asset totals and the industry investment totals for equipment and for structures were as close as possible to the industry control totals derived from independent sources.

#### New residential investment

For the years since 1929, the flows for investment in new residential capital by industry were derived from the NIPA series on the residential fixed investment component of gross private domestic investment. For the years before 1929, the flows were based on data from various public and private sources.<sup>5</sup>

In the distribution of residential investment flows by industry, investment in farm and nonfarm structures was allocated between owner occupied

and tenant occupied; other nonfarm residential structures (dormitories, fraternity and sorority houses, nurses' homes, etc.) were grouped separately. Investment in farm residential structures was allocated between owner occupied and tenant occupied separately for 1-to-4-unit structures and mobile homes using Department of Agriculture data. All owner-occupied farm residential structures were included in the farm industry; tenant-occupied farm residential structures were distributed between those owned by farm operators, included in the farm industry, and those owned by nonfarm landlords, included in the real estate industry.

Investment in nonfarm residential structures was allocated between owner occupied and tenant occupied separately for 1-to-4-unit structues, 5or-more-unit structures, and mobile homes using information from the following Census Bureau reports: Census of Housing (decennial), Annual Housing Survey (annual), Characteristics of New Housing (annual), Residential Alterations and Repairs (quarterly), and Housing Vacancies (quarterly). All nonfarm residential structures were included in the real estate industry, as was all residential equipment, which is defined to be nonfarm tenant occupied.

#### Transfers of used assets

Next, the value of transfers of used assets was added to the flows of new investment by industry. Data were only available to adjust for transfers among different types of owners (private business, governments, households, and foreigners). These data were based, for the most part, on modified NIPA flows for net purchases of used assets. Data were not available to adjust for transfers among industries or among legal forms of organization.

Nonresidential investment.—The largest transfers of used nonresidential capital assets between private

<sup>4.</sup> BEA's capital flow tables are described in the following publications: 1372 table, U.S. Department of Commerce, Bureau of Economic Analysis, New Structures and Equipment by Using Industries, 1372: Detailed Estimates and Methodology, by Peter E. Coughlin and Albert J. Walderhang, BEA Staff Paper S5 (Washington, DC: U.S. Government Printing Office, 1960); 1963 and 1967 tables, U.S. Department of Commerce, Bureau of Economic Analysis, Interiodustry Transactions in New Structures and Equipment, 1963 and 1967, 2 volumes (Springfield, Va.: National Technical Information Service, 1975).

<sup>5.</sup> U.S. Department of Labor and U.S. Department of Commerce, Construction Volume and Costs, 1915-1958, Statistical Supplement to Construction Reviews (Washington, DC: U.S. Government Printing Office, 1958); David M. Blank, The Volume of Residential Construction, 1889-1950 (Princeton: Princeton University Press for National Bureau of Economic Research, 1954); and U.S. Department of Commerce, Bureau of Canava, Historical Statistics of the United States, Colomical Times to 1979 (Washington, DC: U.S. Government Printing Office, 1975).

business and other types of owners involve sales of used autos by private business to households, exports of used equipment, purchases of government surplus assets, and government purchases of privately owned public utilities. For autos, annual data were available on stocks and unit values of autos by type of owner; therefore, it was not necessary to make explicit adjustments for net transfers of autos among types of owners.

In the NIPA's, exports of used equipment and purchases of government surplus assets by private business are valued at secondhand sales prices. For the industry stock estimates, however, these exports and most of the government surplus assets were valued at estimated original acquisition prices, so that the transferred assets were valued consistently with those remaining in the stock of the original owner. Government surplus assets that were built during wartime with special characteristics that added to their cost but that were of no use to their new owners in peacetime were valued at estimates of the prices that private business would have paid for new assets of equal productivity designed for the uses to which the surplus assets would be put. After the estimates of exports of used equipment and purchases of government surplus assets were revalued, they were distributed, in the years of transfer, by type of asset, to the industries involved, using data from the Census Bureau's foreign trade statistics and surplus property reports from the General Services Administration and the Department of Defense.

The NIPA flows of gross private fixed domestic investment and government purchases of goods and services do not presently include purchases by State and local governments of privately owned railroads, transit systems, electric utilities, and water systems. Therefore, annual estimates of the value of assets purchased by government were derived for each type of public utilities, separately for equipment and structures, and removed from the stock of the selling industry in the yeer of purchase. The estimates were based on data from the following sources: for railroads, Moody's Transportation Manuals; local transit, Moody's Transportation Manuals and the American Public

Transit Association; electric utilities, Moody's Public Utility Manuals and Department of Energy publications, Statistics of Privately Owned Electric Utilities in the United States and Statistics of Publicly Owned Electric Utilities in the United States; and water systems, Moody's Public Utility Manuals. Estimates for these purchases will be incorporated into the NIPA's in the comprehensive revision scheduled for publication at the end of 1985, with offsetting adjustments in government purchases and private fixed investment.

Residential investment.—The largest transfers of used residential capital among private business and other types of owners, and among industries, involve purchases of private housing by State and local governments, conversions of Federal military housing to private ownership, and transfers of farm housing to nonfarm ownership. The estimates of transfers among private business and governments were derived from the NIPA flows; the estimates of conversions of farm housing were derived from data from the censuses of housing.

Net transfers of existing residential structures between government and private business consist primarily of State and local government purchases of private housing to make way for new roads or buildings. In the NIPA's, these transfers are offsetting in government purchases and private fixed investment and are valued at sales prices. In the stock estimates, however, these transferred structures were treated as permanent losses from the housing stock rather than as shifts from the private to the public stock; the housing involved in these purchases was removed from the stock of the real estate industry in the year of government acquisition. World War II Federal military housing covered to private ownership after the war was transferred to the stock of the real estate industry in the year of conversion.

An important type of transfer that enters the industry stock estimates, but not the NIPA estimates of investment, is the post-World War II shift of farm housing in urban fringe areas to nonfarm housing. Estimates of the value of these transfers were derived from the censuses of housing and moved from the farm industry to the

real estate industry in the year of transfer.

#### Investment by legal form of organization

The estimates of investment in new and used assets for each industry were distributed by legal form of organization—corporate, sole proprietorships and partnerships, and other private business. These investment flows were then used to derive stock estimates by legal form for each industry. This procedure did not take account of shifts of existing assets from one legal form to another (for example, when an unincorporated enterprise incorporated). The information necessary to account for these shifts was not available.

Nonresidential investment.—Investment in nonresidential capital was distributed annually by legal form of organization within industries by subtracting estimates of investment by other private business and then distributing the remainder between corporations, on the one hand, and sole proprietorships and partnerships, on the other.

For other private business, investment by tax-exempt cooperatives was estimated from Department of Agriculture data, separately for the telephone and telegraph, electric services, and wholesale trade industries; investment by entities required to report rental income on nonresidential property in IRS Schedule E was derived from IRS data on investment and depreciation; and investment by nonprofit institutions serving individuals was derived from Census Bureau data on the value of new construction put in place and from trade association data.

<sup>6.</sup> Corporate business consists of the domestic activities of all entities required to file Federal corporate income tax returns; mutual financial institutions; private noninsured pension funds; cooperatives subject to Federal income taxes; nonprofit organizations that primarily serve business; Federal Reserve busines; and federally sponsored credit agencies. Sole proprietorships consist of all emities that would be required to file IRS Schedule C (Profit or Less from Business or Profession) or Schedule F (Parm Income and Expenses) if the proprietor met the filing requirement, together with farm housing owned by farm operators. Parinerships consist of all entities required to file Federal partnership income tax returns. Other private business consists of all entities required to report rent and royalty income on the Federal individual income tax return in IRS Schedule E (Supplemental Income Schedule) if the individual met the filing requirement; tax-exempt cooperatives; owner-occupied nonfarm housing; and buildings and equipment owned and used by nonprofit institutions serving individuals.

For industries covered by the agriculture and economic censuses (farm. mining, construction, manufacturing, wholesale trade, retail trade, and selected services), the legal-form percentages for corporations and for sole proprietorships and partnerships for the census years were based on distributions of capital expenditures from the censuses; for noncensus years, the percentages were based on distributions of expenditures interpolated by IRS depreciation data. For other industries, the percentages for all years were based on the distributions of IRS depreciation data by legal form.

Residential investment.-For the farm industry, investment in residential capital was distributed by legal form of organization using data from. the census of agriculture. For the real

estate industry, all investment in owner-occupied residential capital was assigned to other private business; investment in tenant-occupied residential capital was distributed by legal form using data from the Census Bureau's survey of residential finance: and investment in other nonfarm residential structures (dormitories, fraternity and sorority, houses, nurses' homes, etc.) was assigned to other private business.

#### **Derivation of Stock Estimates**

#### Service lives

The service lives used in the perpetual inventory method to derive the revised stock estimates are shown in table C. together with those used in

previous BEA estimates. For equipment, the new lives were generally based on industry studies conducted by the Treasury Department during the 1970's. For nonresidential structures, the lives were based on tax service lives in the 1942 edition of Bulletin "F" of the Treasury Department, book value data compiled by regulatory agencies, and Department of Agriculture data. For residential structures, the lives were based on those in a study by Raymond W. Goldsmith and Robert E. Lipsey, except for mobile homes, where the

Table C .- Service Lives Used to Derive BEA Estimates of Fixed Private Capital, by Type of Asset and Industry

|  | <b>∖ γ</b> •                   | are                             | <u> </u>                 | 1  | Ţe                             | 279                             | <b>`</b>                   | h '  | Ye  | inf                               |                         |
|--|--------------------------------|---------------------------------|--------------------------|--|--------------------------------|---------------------------------|----------------------------|--|---|-----------------------------------|-------------------------|
| Type of seast and industry   | Ra-<br>visud<br>eati-<br>mates | Pre-<br>vious<br>esti-<br>motes | Emplana-<br>ción<br>cade | Type of asset such hadestry  | Ra-<br>visad<br>esti-<br>mates | Pre-<br>vious<br>esti-<br>mates | Explane-<br>tion<br>code 1 | Type of asset and industry   | No-<br>vised<br>esti-<br>mates                | Pre-<br>vieus<br>esti-<br>metes   | Explane<br>tion<br>code |
| Newealderstal equipment  |                                |                                 |                          | Metalworking machinery; special  | 1                              |                                 |                            | Monresidentini structures  |   |                                   |                         |
| Rosschold ferniture and fixtures   | 12                             | 15                              | A                        | industry machinery, n.e.c.; gen-<br>eral industrial, including materi-                   | <u> </u>                       |                                 | , '                        | Industrial buildings   | - 81  | 238<br>38<br>38<br>38<br>38<br>38 | l c                     |
| Other furniture  | 1 14                           | 15<br>15<br>18<br>21<br>21<br>8 | Ä                        | als handling, equipment: * Nonmanufacturing industries: Marvafacturing industries:       | [                              |                                 | [                          | Mobile offices   | 31<br>36<br>40<br>84                          | . 36                              | 9900099                 |
| obticated gratul products  | 18<br>32<br>5<br>9             | īš.                             | A<br>A<br>A              | Nonmanulacturing industries  | 16                             | 15                              |                            | Office buildings   | 38  | [ šiš∣                            | lē                      |
| steam engines and furblines  | 32                             | Ži                              | I Ä                      | Manufacturing industries:  | } <u> </u>                     | i                               |                            | Commercial warehouser  | 40  | 36                                | ľč                      |
| aternal combustion cogings   | 8                              | 21                              | Ā                        | Durable goods:   | l                              |                                 |                            | Other connectial buildings   | 84  | 36                                | Č                       |
| BEEN CONCLOSE  | 1 9                            | 8                               | Ā                        | Lumber and wood products   | 12                             | 15                              | A I                        | Religions haddings   | 48  | 428                               | . D                     |
| bestructien tractors   | J ē                            | l 8                             | ! Ä                      | Furniture and fixtures   | l Ā                            | 16                              | Ä                          | Educational buildings  | 481   | - ā                               | Ī                       |
| aricultural machinery, except .  | J                              | I .                             |                          | Stone, clay, and glass products  | وز                             | 15                              | Ã.                         | Educational buildings  |   |                                   |                         |
| tractors   | 14                             | 17                              |                          | Stone, clay, and gians products Primary metal industries                                 | 11101131                       | 15<br>16<br>16<br>15            | <b>A</b>                   | interest and the second | 48  | 48                                | Ç                       |
| tractors.  |                                |                                 | l l                      | Febricated metal products  | 24                             | 15                              |                            | House and motels   | 罐   | (i)                               | C                       |
| tractors   | ] ] •                          | 8                               | ▲                        | Machinery, except electrical   | 25                             | <b>1</b> 5                      | <b>A</b>                   | Ammarment and recreationed build-  |   |                                   |                         |
|  | 53                             | 10                              | A                        | Electric and electronic equip-   | l                              |                                 |                            | 100%   | 3201  | 21.                               | C                       |
| letalworking modbinery fee   |                                |                                 | , ,                      | D404   | 1 14                           | 15                              | A                          | All other nonform buildings  | 38  | 11                                | Ċ                       |
| below)   | 1                              | 16                              | ) A                      | Motor vahicles and engineers   | 14                             | 15 .                            | A                          | RARIWARE   | 51  | 51                                | Þ                       |
| pecial imitotry machinery, n.e.c.)   |                                | •                               | .                        | i Other transporation emin-  |                                |                                 |                            | Talephone and telegraph  | 40  | Z7 .                              | B                       |
| (see below)  | f——                            | 16                              | A                        | instruments and related prod-  | 17                             | 16                              | A                          | Rectric light and power  | i an-i  | *                                 | ₿                       |
| (see below)<br>exerni industrial, including mete-  | ì                              | 1                               |                          | instruments and related prod-  | ı                              |                                 |                            | Cocal transit  | 49<br>38<br>40                                | 240                               | 2                       |
| rness meneumer, equapment (344)  | •                              | •                               |                          | • • • • • • • • • • • • • • • • • • •  | 14                             | 25                              |                            | Local stately-management and an arrangement  | 38  | 25                                | Ç                       |
| peyion)  | <b>⊢</b>                       | 14                              |                          | Miscellaneous manufacturing  |                                |                                 |                            | Petrojeon okoeliona  | 40  | <b>计可以数据数数数</b>                   | CCCBBBCBH               |
| below)   | ì.                             | 1 .                             |                          | indostries   | 17                             | 15                              | A '                        | Parm   | 58  | 36                                | H                       |
| markinery  | 8                              | 8                               |                          | Nondurable goods: Food and kindred products  | I _                            |                                 |                            | Minsing exploration, shafts, and   |   | '                                 |                         |
| markinery<br>tryice industry spechinery:<br>Wholesale trade, retail trade                    |                                |                                 |                          | Food and kindred products  | . 20                           | 15                              | Ą.                         | Webb   | ) <b>é</b>                                    | 16                                | Ď                       |
| Wholesale trade, retail trade  | 10                             | 10<br>10                        | i 🔅 i                    | Тороско принцестительный   | 57                             | 15                              | , Ą                        | Other *  | 40  | 31 -                              | C                       |
| Cit. betr ibd Unit ried  | 11                             | 10                              |                          | Terrisio mili producto Apparel and other textile   | 19                             | 1.5                             | A 1                        |  | '   | 1                                 |                         |
| lectrical transmission, distribu-  | ·                              |                                 |                          | Appared and other taktile  | الله                           |                                 | . '                        | Residential capital  | ۱   |                                   |                         |
| tion, and industrial apparatus   | 32                             | 14                              | ٨                        | Products Paper and allied products Printing and publishing Chemicals and allied products | 16<br>16                       | 15<br>15<br>15<br>16<br>16      | *                          | l  |   |                                   | _                       |
| ommunication equipment:  | ١.,                            | I                               |                          | Paper and sitted products  | 16                             | 1.5                             | ,                          | 1-to-t-onit akrustures—new<br> -to-t-onit structures—additions   | 80  | 80                                | E                       |
| Business services  | 37                             | 14<br>14<br>14                  |                          | Legistian and benighting-fine-   | ro.                            | 15                              | ا ب                        | 1-10-4-aast stractures adductions  | 1   |                                   |                         |
| Other industries   | 15<br>10                       | 141                             | Ý                        | Custocom and rated becomes -   | 32                             | 백                               | Ą                          | and alterations  | 40<br>85                                      | #0<br>65                          | É                       |
| ousehold applicators   | l mi                           | 14                              | ı 🛧                      | PACTOLEUM AND COOL PROGRESS  | 322                            | LD                              | , A ]                      | 5-or-more-unit structures new  | 40  | 55                                | ь                       |
| thet electrons administrate  | , ,                            | 14                              | ^                        | Rubber and miscellaneous   | 14                             |                                 |                            | 5-or-more unit structures addi-<br>tions and alterations   |   | - 104                             | _                       |
| ther electrical equipment rucks, human and truck trailers:<br>Local and interurban passenger | ŀ                              | •                               |                          | phetio products  | [ 18]                          | 15<br>15                        | <b>.</b>                   | Market and an extractions are a second   | # 12  | 92                                | - #                     |
| coon and menoran beneated  | 14                             | و                               |                          | Leacher and leacher products   | LD                             | 100                             | , ^ ,                      | Mobile homes<br>Other structures   | 16<br>16<br>18                                | 82<br>16<br>· 40                  | E GE                    |
| Trucking and warehousing auto  | , an                           | J 7                             | ^ .                      |  |                                |                                 | , '                        | Equipment  | 77  | · 111                             | 7                       |
| repair, services, and garages  | 100                            | 9                               |                          |  |                                |                                 |                            | <del></del>  | , <u>, , , , , , , , , , , , , , , , , , </u> |                                   | ^                       |
| Other industries   | 1 19                           | 9                               | 1 1                      |  | •                              | ı                               |                            |  |   |                                   |                         |
| Utos   | 10                             | ıé                              | À                        | 1  |                                |                                 |                            | l i  | 1   | 1                                 |                         |
| kroraft:   | 1 **:                          |                                 |                          | 1  |                                |                                 |                            | l I  | - 1   | - 1                               |                         |
| Banking, transportation by air;  |                                |                                 | ! }                      | <b>).</b>  | l :                            | 1 1                             |                            | 1 1  |   | - 1                               |                         |
| produces services and and  | 16                             | 16                              | ا ۸ ا                    |  | ٠                              |                                 |                            | ·  | 1   | - 1                               |                         |
| Other indestries   | i iš                           | ا عُزَّ ا                       | 7 7                      | ll l   |                                |                                 |                            | ∥ •  | I   | - (                               |                         |
| h os and beats   | <u>2</u> 7 ⋅                   | - <del>2</del> 9                | A<br>A                   | 1  |                                | ı I                             | 1                          | ∥ 1  | I   | - 1                               |                         |
| Slimed environment   | 16<br>12<br>27<br>20           | 16<br>16<br>数数                  | Â                        |  |                                |                                 |                            | ,  | . J   | i                                 |                         |
| Allroad equipment  | I ~~''                         | ~~                              | , "                      |  |                                |                                 | i                          | <u>I</u>   | [-  | . [                               |                         |
| ments.   | 181                            | l ու                            | Α.                       | 1  |                                | . 1                             |                            | 1 I  | - 1   | 1                                 |                         |
| hotegraphic equipment  | اة ا                           | l iil                           | Â                        | 1  |                                |                                 |                            | X I  | - 1   |                                   |                         |
| ther   | li                             | l iii                           | Â                        | i :  |                                |                                 |                            | l· .   | - 1   |                                   |                         |
|  |                                | · · · ·                         | 1                        | [  | [ ]                            |                                 |                            | 5 i  | - 1   | - 1                               |                         |

L. Explanation codes:

<sup>7.</sup> U.S. Department of the Treasury, Bureau of Internal Revenue, Bulletin "F" (Revised January 1912) Income Tax, Depreciation, and Obsolemence, Estimated Useful Lives and Depreciation Rates (Washington, DC: U.S. Government Printing Office, 1942).

A: New service three based on industry studies by the Office of Industrial Economics of the authors of the Treasury.

B: New service time besed on SEA studies of book value data compiled by regulatory agent-

Ct. Service lives based on madifications of tax service lives in *Bulletta*: "F"; tevision due to working in greater detail than in previous BEA studies.

Dr Service lives based on modifications of tax service lives in *Bulletin*: "F"; as change from those used in previous BEA studies.

E: Service lives based on lives used by Raymand W. Geldsmith and Robert E. Lipsey; no change from those used in previous BEA studies.

F: The estimates of stocks of autos do not require an emplicit service life assumption. The 18-year life is used only in the calculation of set truit values of used autos.

G: Service lives based on trade estaciation data; new life for nonresidential and no change from life used to previous SEA studies for registratial.

from 186 used to previous BEA studies for regislential.

E. Service lives based on Department of Agriculture data; no change from these used in previous BEA studies.

2. In previous BEA studies, the following carries lives were used: metalworking stackines; and special undastry metalworking stackines; and special undastry metalworking stackines; and enquipment, it years. The average service 186 for the three types was 184 years.

3. Consists of buildings n.o.o., such as passanger terminals, greenhouses, and animal hospitals.

4. Consists of directs, dams and passanger terminals, greenhouses, and animal hospitals.

<sup>5.</sup> Consists of dormitories, fruternity and somethy houses, nurses' houses, etc.

average service life was based on trade association data.<sup>5</sup>

Separate service lives were used for each type of asset in the perpetual inventory calculation—the same asset detail for which annual investment series are estimated in the NIPA's. Where possible, separate lives were used for each industry in which a particular type of asset is purchased, to align service lives more closely with actual experience; however, because of data limitations, industry-specific service lives could be computed only for some types of assets, as indicated in table C.

Each service life by type of asset and industry was held constant over time. Although service lives could vary over time due to business conditions and technological change, the information necessary to estimate such changes in service lives was not available. The book value comparisons given later in this article suggest that the use of constant service lives has not produced any systematic bias in the BEA estimates for the 1959-81 period.

Equipment.—The revised stock estimates for nonresidential and residential equipment were based on service lives obtained from industry studies conducted during the 1970's by the former Office of Industrial Economics (OIE) of the Treasury Department.9 The OIE results were particularly useful for manufacturing industries. because they provided separate industry estimates of service lives for production-type equipment-metalworking machinery; special industry machinery, n.e.c.; and general industrial, including materials handling, equipment. The previous BEA stock estimates were based on service lives that were derived by modifying Bulletin F lives. The lives used in the revised BEA estimates represent an improvement over those used in the previous estimates, particularly in that they provide detail for separate industries.

Nonresidential structures.—For farm structures, the average service life used in both the revised and previous estimates was based on Department of Agriculture data. For telephone and telegraph, electric light and power, gas, and petroleum pipelines structures, the service lives used in the revised estimates were derived by comparing book value data provided by regulatory agencies with perpetual inventory estimates calculated using various alternative service lives. For other types of nonfarm structures, the lives used in the revised estimates were derived by modifying Bulletin F lives, as follows. Because

Table D.—Modified Winfrey S-3 Retirement
Patterns

| Percent of average service life  | Cumulative percent o<br>triginal expenditures<br>discarded   |
|--|--|
| Nonresidential capital (except autos), residential equipment  Lete than 45   | 0<br>124<br>4.1<br>6.5<br>13.7<br>24.6<br>31.4<br>45.1<br>61.6<br>63.6<br>63.6<br>63.6<br>90.3<br>96.9<br>97.8<br>100  |
| Residential structures  Less than 5 5 10 15 20 25 30 36 40 45 55 60 65 70 75 80 85 80 85 80 81 81 81 81 81 81 81 81 81 81 81 81 81 | 1.5.7.0.7.7.17.6.6.3.2.1.0.6.3.4.1.0.6.7.2.0.0.6.5.7.0.3.7.1.2.2.6.6.3.2.1.0.6.3.4.1.0.6.7.2.0.0.6.6.3.2.7.0.3.7.7.2.2.6.6.3.2.1.0.6.3.4.1.0.6.7.8.6.3.2.6.6.3.2.7.7.2.2.3.4.5.6.3.2.2.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2 |

the NIPA investment flows for nonresidential structures include additions and alterations to existing structures as well as new structures, the Bulletin F lives, which apply only to new structures, were shortened 20 percent for manufacturing structures and 7 percent for nonfarm nonmanufacturing structures. Next, the lives were shortened another 15 percent to account for the fact that actual service lives for nonresidential structures were probably shorter than Bulletin F lives. In the previous estimates, the lives for all types of nonfarm structures were derived by modifying Bulletin F lives, as described above.

#### Retirement patterns

Except for autos, the service lives in table C are averages; therefore, to account for the retirement of assets at different ages, patterns were calculated based on modifications of the Winfrey S-8 curve, a bell-shaped distribution centered on the average life.10 For nonresidential capital and residential equipment, retirements start at 45 percent and end at 155 percent of the average life. For residential structures, retirements start at 5 percent and end at 195 percent of the average life (table D). The retirement patterns used in both the revised and the previous estimates were the same.

#### Obsolescence

The service lives used to derive the revised and previous estimates were designed to take account of expected average obsolescence over time, and the retirement patterns were designed to take into account normal deviations around the average life. However, the patterns do not take account of "unexpected" obsolescencethat is, obsolescence due to unforeseen events that may have substantially altered the time pattern of the loss of the asset's productive services. Some analysts have argued, for example, that government pollution abatement and safety regulations, sudden increases in energy prices, and increased foreign competition since the early 1970's have rendered certain capital assets obsolete before the end

Raymond W. Goldsmith and Robert E. Lipsey, Staties in the National Balance Sheet of the United States (Princeton: Princeton University Press for National Bureau of Economic Research, 1983), volume 1, chapter 2.

<sup>9.</sup> The OIE data are unpublished, except those for the textile industry, which are available in U.S. Department of the Treasury, Office of Industrial Economics, The Textile Industry: A Study of Capital Investment, Technology and Other Factors Affecting Prescribed Capital Recovery Allowances of Textile Machinery, by Stephen J. Hudek and Peul T. Bohnslav (Washington, DC: U.S. Government Printing Office, 1976).

<sup>10.</sup> Robley Winfrey, Statistical Analysis of Industrial Property Retirement (Ames: Itwa Engineering Experiment Station Bulletin 125, December II, 1935).

Table E.—Comparison of BEA Estimates of Gross Stocks of Fixed Private Capita) in Historical-Cost Valuation and IRS Estimates of Gross Book
Value of Depreciable Assets, Selected Years, 1959-81

[Ratio of HEA estimates to IRS estimates]

|   | 1959 | 1961        | 1968        | 1965        | 1967        | 1969 | 1971       | 1978        | )B75        | 1977       | 1978        | 1975        | LOSS       | 1981        |
|---|------|-------------|-------------|-------------|-------------|------|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|
| All industries, colai                             | 84.0 | 0.98        | 0.29        | 4.99        | 0.99        | 0.99 | 1.42       | 1.03        | E.100       | 0.4        | 1.99        | 94          | n.s        | al.ap.      |
| Corporations Sole proprieturables and perturables |      | .96<br>1.09 | .97<br>1.07 | .97<br>1.05 | .97<br>1.11 | 1.22 | 1:13<br>50 | 1'08<br>'36 | .98<br>1.03 | .98<br>B.B | ee.<br>90.1 | 1,01<br>DAI | .98<br>n.# | .96<br>A.L. |

North—Balion are for estimates at of the and of the year. BEA and IRS estimates were adjusted for conceptual differences, as described in the cost.

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of their normal service lives. In situations where such unexpected obsolescence did occur and assets were retired before the end of their normal service lives, it would be desirable to reflect these earlier-than-normal retirements in the stock estimates.

In BEA stock estimates, adjustments were not made for such unexpected obsolescence because the necessary data were not available. In the case of assets rendered obsolete by government pollution abatement and safety regulations and by increased energy costs, it is possible that many of these assets would already have been near the end of their normal lives when they were retired, and that any adjustments to remove them from the stock estimates would be small. In the case of plant closings due to foreign competition, it is possible that these plants may reopen in the future, although not necessarily producing the same products. Because these plants still represent productive capital, they should continue to be included in the stock estimates until they are demolished or until it is certain that they will never reopen in any capacity.

#### Valuation and price indexes

The stock estimates are valued in three different ways—at historical cost, at constant cost, and at current cost. In historical-cost valuation, each asset in the gross stock is valued at its original acquisition price. Constant-cost estimates—referred to in tables 3, 4, 7, and 8 as constant-dollar estimates-value each asset at the prices of 1972, the prices used for constant-dollar GNP. Thus, the constantcost stock for a particular industry is an estimate of the quantity of fixed capital owned by that industry valued in 1972 prices. The constant-dollar investment flows used to derive these estimates were obtained by dividing the current-dollar industry investment flows by price indexes, separately for each type of asset.

Current-cost estimates—referred to in tables 1, 2, 5, and 6 as current-dollar estimates—value each asset at any specific period at the prices of that period. For example, the yearend 1947 stock estimate shows the items that were in the stock at yearend 1947 expressed at the prices that would have been paid for them at yearend 1947 if they had been produced at yearend 1947. Current-cost stock estimates were calculated by applying price indexes to the constant-cost stock estimates.

The price indexes used to derive the estimates of constant-cost and current-cost stocks were the same as those used to derive constant-dollar fixed investment in the NIPA's. 11 Price indexes for structures were based on various construction price and cost indexes, and those for equipment were based on Producer Price Indexes published by the Bureau of Labor Statistics (BLS). 12

#### Autos

Numbers and ages of autos in use were available each year from State registration data tabulated by R. L. Polk and Company. The procedure for deriving estimates of the stocks of autos owned by private business took advantage of the availability of this information. As a result, it was not necessary to assume an estimated service life or retirement pattern for autos or to make explicit adjustments for sales of used autos from one type of owner to another.

The first step in deriving estimates of stocks of autos by industry involved the calculation of the total stock of autos in use, regardless of ownership. This stock was calculated as follows:

(a) The number of new autos entering the stock each year was estimated from trade association data; (b) survival rates were obtained from annual Polk tabulations for each year of original registration; and (c) these survival rates were applied to the new autos series to derive annual estimates of the total stock of autos in use by year of original registration.

Second, the total stock of autos was separated into stocks of consumer and business autos, based on Polk tabulations of registrations by businesses and by individuals and on BLS and Census Bureau data on autos owned by individuals but used wholly or partly for business purposes.13 Autos owned by businesses were assigned to the business stock, and autos owned by individuals that were used exclusively for personal purposes were assigned to the consumer stock. Autos owned by individuals that were used wholly or partly for business purposes were allocated between consumer and business usage of these autos; the portion of these autos allocated to business stocks provided the estimates of employee-owned autos discussed in "Investment controls by industry."

Third, the average unit value for business autos in each year of original registration was derived from BLS data and then deflated by the implicit price deflator for the new autos component of producers' durable equipment to obtain the average unit value

<sup>11.</sup> For investment in electric light and power structures, the NIPA price indexes were modified in timing to reflect price changes in the value of completed plant, because the NIPA investment data were modified, as discussed earlier.

<sup>12.</sup> The principal price indexes used for structures are described in "Revised Deflators for New Construction, 1947-73," Survey 54 (August 1974, Part Int8-27. Those for equipment are described in Irving Rottenberg and Gerald Donahoe, "Improved Deflation of Producers' Durable Equipment," Survey 55 [July 1975):20-22.

<sup>13.</sup> The data on business usage of household-owned autos were derived from U.S. Department of Labor, Bureau of Lebor Statistics, Survey of Consumer Expenditures (Washington, DC U.S. Government Printing Office, 1984); U.S. Department of Commerce, Bureau of the Census, Consumer Buying Indicators, 1971 (Washington, DC U.S. Government Printing Office, 1972); and unpublished Census Bureau survey data for 1973-74.

in 1972 prices. The annual constantcost gross stock of business autos was obtained by multiplying the number of business autos in each year of original registration by the corresponding deflated business unit value.

Finally, total business stocks of autos were distributed by industry using data from BEA's capital flow tables adjusted to the NIPA industry classification and to an ownership basis.

#### Depreciation and net stock

Assets are carried in the gross stock at their undepreciated values during the entire time they remain in the stock. The net stock estimates were derived by subtracting accumulated depreciation estimates from these values. The depreciation estimates were derived using the straight-line formula, which assumes equal dollar depreciation each year over the life of the asset. 14

Capital consumption allowances in the NIPA's.-The estimates of capital consumption-capital consumption allowances with capital consumption adjustment (CCA with CCAdj)-now used in the NIPA's are equal to the current-cost depreciation estimates associated with BEA's previous capital estimates plus accidental damage to fixed capital. The estimates of depreciation associated with the revised and updated stock estimates to be published in 1986 will provide the depreciation estimates at the all-industry level for the CCA with CCAdi for the comprehensive revision of the NIPA's scheduled for publication at the end of 1985. The revised industry estimates cannot be used to derive industry estimates of CCAdi, the difference between capital consumption estimates based on tax returns and those based on the current-cost depreciation estimates from the stock calculations, because the tax-return-based NIPA estimates of CCA are on a company basis and the depreciation estimates associated with the revised stock estimates are on an establishment basis. Research to de-

velop company-based estimates of CCA with CCAdj by industry is planned.

#### Comparisons with IRS and Census Book Value Estimates

To provide checks on the validity of the combination of the investment flows, service lives, retirement patterns, and legal-form allocations used to derive the revised BEA estimates, comparisons were made between the revised estimates of gross stocks in historical-cost valuation and two sets of independently derived estimates—one based on IRS book value estimates and the other on similar data from the Census Bureau. 18

## Comparisons with IRS estimates at the all-industry level

Table E shows ratios of the revised BEA estimates of gross stocks of fixed private capital in historical-cost valuation to IRS estimates of gross book value of depreciable assets, separately for corporations and for sole proprietorships and partnerships. (The comparisons are for years for which IRS estimates were available.)

Before the ratios were calculated, the estimates were adjusted to remove conceptual differences. The IRS estimates were adjusted to remove depreciable assets of unincorporated foreign branches, construction work in progress, and allowance for funds used during construction of public utilities, and to add assets that financial industries own and lease to other industries and autos owned by individuals and used wholly or partly for business purposes.

The BEA estimates were adjusted to reflect the IRS valuation method and ownership classification for assets sold secondhand using IRS data on capital gains and the NIPA price indexes for the assets involved. In the IRS estimates, assets sold secondhand were valued at their cost to the

Table F.—Comparison of BEA Estimates of Gross Stocks of Fixed Private Capital in Historical-Cost Valuation and Census Estimates of Gross Book Value of Depreciable Assets, by Industry, 1977

| '  | Billions      | of dollars       | Ratio of BEA to                       |
|--|---------------|------------------|---------------------------------------|
| industry   | BEA estimates | Consus estimates | census estimates                      |
| Total of all consus-corresed industries  | \$78.6        | 260.B            | 1.01                                  |
| lining   | 107.8         | 110.2            | .98                                   |
| Metal mining   | 9.8           | 10.0             | .98                                   |
| Coal mining  | 10.7          | , <u>(3,8</u>    | .75                                   |
| Oil and gas extraction Nonmetallic minerals, except feels.   | 80,9          | 78,7             | 1.00                                  |
| Nonregtallic minerals, except feels  | 6.7           | 7.8              | .87                                   |
| Code de l'action de la communicación de la com | 45.4          | 42.8             | []                                    |
| 1easteduring   | 488.5         | 469.7            | .93                                   |
| Durable goods Lowber and wood products   | 205.7         | 241.0            | .96                                   |
| Lumber and wood products   | 11.5          | 12.5             | 99<br>88<br>89<br>88<br>88<br>88      |
| Forniture and fixtures   | 3.6           | 4.2              |                                       |
| Stone, clay, and glass products  | 18,4<br>54.5  | 21.5<br>59.3     | ☆                                     |
| Fabricated metal products  | 26.7          | 27.1             |                                       |
| Machinery, secept electrical   | 25.7<br>27.1  | 38.2             | .97                                   |
| Electric and electronic equipment  | 21.9          | 27.3             | 1.06                                  |
| Transfortation equipment/2.5   | 4₽.6          | 1.06             |                                       |
| Instruments and related products Miscellaneous manufacturing industries  | 4.6           | 9.1<br>4.6       | .89<br>1.09                           |
| Nundership cools   | 204.7         | 225.7            | و ا                                   |
| Nonderable codes   | 40.3          | 40.7             |                                       |
| Tobacco manufactures   | 2.0           | 2.●              | .9                                    |
| Textile mill products  | 14.1          | L5.6             | .9                                    |
| Appere) and other textile products   | 4.6           | 4.7<br>92.2      | .9                                    |
| Paper and allied products  | 27.3<br>14.2  | 16.0             |                                       |
| Printing and publishing Chambeals and allied producte  | 81.2          | 69.2             | i i i i i i i i i i i i i i i i i i i |
| Petroleum and coal products  | 25.9          | 27.3             | .Ď                                    |
| NUMBER AND INICOLANGE IN PARTIE PRODUCTS   | 14.0          | 16.6             | Ė                                     |
| Leather and leather products   | 1-1           | 1.2              | . 3-                                  |
| Vhelesale (rade  | 65.4          | 64.0             | 3.04                                  |
| letell (rede   | 1054          | 97.9             | 1.00                                  |
| elected canage-covered services  | (13.0         | B5.4             | 1.3<br>.9                             |
| Hotels and other lodging places  | 23.6          | 24.1             | 9,                                    |
| Personal services  | 10.2          |                  | 1.1                                   |
| Putinger services  | 32.6<br>26.1  | 20.5             | 1.5<br>2.0                            |
| Auto repair, services, and garages   | 20.1<br>4.0   | 13.0             | 1.5                                   |
| Motion pictures  | 43            | 1 15             | 1.2                                   |
| Amusement and recreation services  | 43<br>122     | 12.8             |                                       |

Nove.—Estimates are us of the end of the year. The comme estimates were adjusted for conceptual differences with the BEA estimates, as described in the text.

<sup>14.</sup> The rationale for using the straight-line formula is discussed in Allen H. Young and John C. Musgrave, "Estimation of Capital Stock in the United States," in Dan Usher, ed., The Measurement of Capital, Conference on Research in Income and Wealth: Studies in Income and Wealth, vol. 46 (Chicago: University of Chicago Press for National Bureau of Economic Research, 1980).

<sup>15.</sup> The revised BEA stock estimates in historical-rost valuation, which are not shown in this article, are available on the computer tape mentioned earlier.

present owner and were included in the stock of the present owner. In the BEA estimates, such assets were valued at their cost to the original owner and were included in the stock of the original owner. Because the data used to adjust the BEA estimates related only to sellers, the adjustment could only be made at the all-industry level, separately for corporations and for sole proprietorships and partnershipe, and was not possible for instances where an entity changed its legal form of organization without selling its assets (for example, when an unincorporated enterprise incorporated). The inability to make the adjustment in instances where an entity changed its legal form affects the comparisons in table E for corporations and those for sole proprietorships and partnerships but not those for the total of these two legal forms.

As shown in table E, the ratios of BEA to IRS estimates at the all-industry level are very close to 1.00 over the 1959-78 period. This may be viewed as evidence consistent with the validity of the combination of the investment flows, service lives, and retirement patterns used to derive the BEA estimates. For corporations, the ratios in table E are less than 1.00 (i.e., the BEA estimates are smaller than the IRS estimates) for all years shown except 1979, although they are very close to 1.00 beginning in 1971. For sole proprietorships and partnerships, the ratios are greater than 1.00 for all years shown, although they are considerably closer to 1.00 beginning in 1975. This may be viewed as evidence that, over this period, the BEA estimates for corporations are apparently bissed downward somewhat. and those for sole proprietorships and partnerships are apparently biased upward somewhat. Two possible sources of this apparent bias in the BEA estimates by legal form of organization are: (1) the legal-form allocations used to derive the BEA estimates were based on less information prior to the 1960's than those starting in the 1960's; and (2) the BEA estimates do not take account of entities changing from one legal form to another. Most of these legal form changes through the early 1970's were from sole proprietorships and partnerships to corporations. Starting in the 1970's, this bias appears to be decreasing, but its future direction and size are difficult to predict.

#### Comparisons with census book value estimates by industry

Table F shows the revised BEA estimates compared with adjusted estimates of gross book values of depreciable assets for industries included in the economic censuses in 1977. The census estimates were adjusted to make them conceptually comparable with the BEA estimates; the adjustments are similar to those described in "Investment controls by industry."

For the total of all census-covered industries, the BEA and census estimates are within 1 percent of each other. On an individual industry basis, the two sets of estimates are within 5 percent of each other for 14 of the 34 industries; for the other 20, the BEA estimate is lower than the census estimate for 13 industries and higher for 7 industries.

One major reason for the differences between the two sets of estimates for some industries is the treatment of capital leases.18 These leased assets are included in the industry of the lessor in the BEA estimates and in the industry of the lessee in the census estimates. The impact of this

difference is especially apparent in two of the census-covered industries with substantial leasing activity business services and auto repair. services, and garages.

Given the approximate nature of the adjustments to the census estimates and the capital lessing problem, the closeness of the BEA and Census Bureau estimates at the level of all census-covered industries and for most individual industries may be viewed as evidence consistent with the validity of the combination of the investment flows, service lives, and retirement patterns used to derive the BEA estimates for the census industries.

#### Comparisons with IRS corporate book value estimates by industry

Table G shows the revised BEA estimates compared with IRS estimates on corporate gross book value of depreciable assets. A similar comparison for sole propretorships and partnerships was not possible, because IRS did not tabulate estimates of gross book value of depreciable assets for these entities for 1977.

The estimates for this table were adjusted in the same way as those for table E, except in two cases. First, the BEA estimates by industry were not adjusted for valuation of assets sold

16. A capital lease, which is generally of longer duration than other types of leases, is defined in Statement of Financial Accounting Standard No. 13, issued by the Financial Accounting Standards Board.

Table G.-Comparison of BEA Estimates of Corporate Gross Stock of Fixed Private Capital in Historical Cost Valuation and IRS Estimates of Corporate Gross Book Value of Depreciable Assets, by Industry, 1977 1

|   | Billions o                       | f dollare                        | Ratio of REA to           |
|---|----------------------------------|----------------------------------|---------------------------|
| Codustry  | BBA estimates                    | IRS estimates                    | (NS estimates             |
| R Industries, total   | 1,386.7                          | 1.494.8                          | 7 0.33                    |
| Agriculture, furnitry, and fisheries.   | 16.4                             | 16.3                             | Le0                       |
| Mining  | <b>92</b> 8                      | 1955                             | .78                       |
| Comstruction  | 11.5                             | 33.1                             | 95                        |
| Manufacturing Durable gods Nonderable gods  | 429-2<br>228-0<br>301-2          | 488.9<br>880.7<br>306.3          | #8<br>8)<br>97            |
| Transporation and public utilities  Transportation Complimitation Electric gas, and sanitary services | 479.4<br>130.6<br>147.8<br>201.0 | 473.1<br>119.5<br>126.3<br>216.7 | . 94<br>176<br>170<br>170 |
| Wholesale trafe   | 622                              | 60.1                             | 1.04                      |
| Retail trade  | 75.9                             | 84.3                             | .90                       |
| Finance, incurrence, and real estate  | 108.5                            | 196.D                            | 80                        |
| Services  | \$2.9                            | 76.9                             | 1.21                      |
| didentia: Consuccevered industries  Salected services  Other industries                               | 764.5<br>72.9<br>874.2           | 852.3<br>60.4<br>643.6           | .90<br>L21<br>1 .57       |

<sup>1.</sup> Estimates are as of the end of the year.

2. The all-industry local for the RES estimates includes, and the industry detail amindes, \$0.6 billion of casets classified as "notice of besides not allestable."

3. The all-industry ratio differs from that given in table E because of different adjustments applied to the REA and RES estimates in the 2 sets of comparisons, as explained in the tast.

4. Consists of making; construction; manufacturing; wholesale trade; and the services industries shown in table \$7.

5. Consists of the services industries shown in table \$7.

6. Consists of the services industries above in table \$7.

6. Consists of the services (Recently, and finite-les; transpersion and public stilling fraction, insurance, and real estate; and lessel, legal, educational, and other services.

secondhand, because the necessary data were not available. Thus, the allindustry ratio in table G differs from that for corporations in table E, and a number of the industry comparisons in table G are affected by the mability to adjust for this difference in valuation methods. Second, IRS estimates for many industries could not be fully adjusted from the company basis to the establishment basis required for comparison with the BEA estimates. The partial company-establishment adjustment affected industries as follows: (1) Assets of integrated petroleum companies were reclassified primarily from the manufacturing of petroleum and coal products industry to mining, chemical manufacturing, transportation, retail trade, and certain other industries; (2) assets on which depletion allowances were claimed on tax returns were reclassified from the industry claiming the depletion allowance to the mining and forestry industries; (3) assets in manufacturers' sales branches were reclassified from manufacturing industries to the wholesale trade industry.

As shown in the addenda to table G, the BEA and IRS estimates for the

total of all industries not covered by the 1977 economic censuses are within 3 percent of each other. This closeness of fit, together with that shown in table F between the BEA and census estimates for the total of all census-covered industries, provides further evidence consistent with the validity of the combination of the investment flows, service lives, and retirement patterns used to derive the BEA estimates. The ratios in table G by industry show considerable variation, largely due to the valuation and company-establishment classification problems discussed above.

Table 1.—Current-Dollar Gross Stock of Fixed Private Capital,

|  | · · · · · ·  |                    | :  |                                 |                                      |   | ٠  |   |  |                          |   |                                 |  |                         |                               | (Billione                  |
|--|--|--------------------|--|---------------------------------|--------------------------------------|---|--|---|--|--------------------------|---|---------------------------------|--|-------------------------|-------------------------------|----------------------------|
| Ljer   |  | 1947               | 1948   | 1949                            | 1360                                 | 1951  | 1852   | 1953  | 1954   | 1955                     | 1966                                    | 1987                            | 1968   | 195ê                    | 19 <b>50</b>                  | 1961                       |
| i  | Fixed private capital  | 667.2              | 721.0  | 735.0                           | 818.7                                | 8941.1  | 938.2  | 974A  | 1,015,7  | 1,093.4                  | 1,377.5                                 | 1,20 L.3                        | 1.275.1                                      | 1,324.#                 | 1,362.6                       | 1,4424                     |
| 2  | Nonreoisestral   | 318.2              | 450.5  | 392.5                           | 399.6                                | 438.0   | 462.0  | 488.3   | 801A   | 644.3                    | C02.5                                   | 630.6                           | 643.6  | 689.7                   | 767.5                         | 728.5                      |
| 8  | Agriculture, forestry, and flabories   | 24.3               | 28.3   | 30.5                            | \$4.6                                | 38.6  | 41.3   | 43.7  | £4.0   | 47.#                     | 66                                      | 51.2                            | - 52.6                                       | 58.T                    | 64.5                          | 88,0                       |
| 4 5  | Person Agricultural services, furtistry, and fishering   | 23.2<br>1.1        | 21.0<br>1.2  | 29.1<br>1.3                     | 312                                  | 348.5<br>1.6                                      | 375<br>L8  | 40.9<br>1.8   | 48.1<br>1.9  | 44.9<br>21               | 47.3<br>2.4                             | 49.6<br>2.6                     | 49.5<br>2.6                                  | 54.8<br>2.9             | 51.1<br>3.0                   | 61.9<br>3.1                |
| 6  | Ministration of the second   |                    | 25.0   | 23.1                            | 23.5                                 | 20.3  | 28.2   | 30.0  | J.,7   | 36.6                     | 46.2                                    | 42.6                            | 44.6   | 47.4                    | 48.1                          | 54.0                       |
| 1  | Model reining  |                    | Ι'   | 1.8                             |                                      | 2.1   | i  | ٠   |  | 2.5                      |   | Ι.                              | 2.9  | 8.0                     | 1                             | 82                         |
| à  | Cost retaing Oit and gas extraction  | 1.0                | 1.9<br>2-1<br>15-6<br>1-1                          | 16.2                            | 1.9<br>184<br>1.1                    | 20.5<br>20.5<br>1.4                               | 38<br>32<br>223<br>15  | 23<br>23<br>219                                     | 23<br>23<br>256<br>16                                | 28.1                     | 2.6<br>2.4<br>28.2<br>18.2              | 2.9<br>2.4<br>85.4<br>2.0       | 23<br>77.4                                   | 40.1                    | 81<br>23<br>408               | 124<br>42.4<br>2.0         |
| 10   | Nonnetallic minerals, except feets   | . 9                | 1 .  | 1.1                             | 1                                    | 1.4   | 15   | 1.6   |  | 1.7                      | 1 1 1 1                                 | 2.0                             | 2.0  | 2.0                     | 2.0                           |                            |
| . 11   | Construction   |                    | 5.8  | 6.3                             | . 7.5                                | B.E   | 3.4  | 20.0  | 10.5   | 11.5                     | 12.4                                    | 12.5                            | 13.5   | 14.3                    | 144                           | 14.0                       |
| 12   | Macofeticing   | _                  | 78.9   | 78.8                            | 84.9                                 | 77.3  | 103.6  | 196.8   | 118.0  | 122.7                    | 144.0                                   | 168.6                           | 156.0  | 140.5                   | 16.3                          | 169.7                      |
| 14   | Durable goods Lumber and wood products   | 30.9<br>1.5        | 34.6   | 36.8<br>1.9                     | 39.7<br>2.1                          | 467   | 48.7<br>2.5  | 51.7<br>2.6   | #4.3<br>\$18   | 60.3<br>8.1              | 70.1<br>2.5                             | 76.4<br>3.7<br>1.2              | 79.0<br>3.8                                  | 82.7                    | . 41<br>. 41                  | 88.4                       |
| 14<br>81<br>17                               | Purniture and flutures Stone, clay, and glass products Primary matel judgestyles   | 2.6<br>8.6         | 13   | a.8                             | 4.2                                  | 4.5   | 1  | 16.1  | 20   | 5.5                      | 11<br>68                                | 7.1                             | 1.2  | 1.2                     | 1 79                          | 1.2<br>0.2                 |
| 1R   | Febricatesi metal products   | . 28               | JA.5<br>3.1  | 20.5<br>3.3                     | 3.8                                  | 4.6<br>19.0<br>4.3<br>6.5<br>3.7<br>4.8<br>2.5    | 144  | 6.0   | 155<br>64<br>82<br>45<br>64<br>21<br>11              | 18.9<br>6.1<br>9.1       | 19.6<br>7.1                             | 21.7                            | 22.6<br>8.0                                  | 23.4<br>8.4             | 343<br>88<br>129<br>69<br>109 | 24.5<br>9.1<br>18.2<br>7.2 |
| 20   | Machinery, except alectrical   | 4.1<br>2.5         | 31<br>47<br>29<br>34<br>21                         | 8.0                             | 33                                   | 3.7   | 40   | 6.0<br>7.7<br>4.8<br>5.8<br>2.6                     | 4.5  | 4.9<br>7.8               | 6.7                                     | 11.4<br>6.1                     | 11.8<br>8.4                                  | 12.4<br>6.6             | 6.9                           | 7.2                        |
| #  | Electric and electronian equipment.  Motor valuates and equipment.  Other transportation equipment.  Jestruments and related products.   | 2.5<br>3.0<br>2.0  | 2.1  | 8.2<br>4.9<br>8.0<br>8.6<br>2.1 | 3.6<br>5.4<br>3.3<br>3.9<br>2.2<br>B | 2.5   | 47<br>7.1<br>40<br>63<br>28<br>10  | 2.5   | 11   | l 2.4 '                  | 7.1<br>16.5<br>6.7<br>8.8<br>4.1<br>1.5 | 46                              | 8.1<br>9.9<br>4.9<br>1.7                     | 10.5<br>5.0             | 10.9<br>8.1<br>20             | 112<br>53<br>81            |
| 190  | Instruments and related products   | . <b>6</b><br>.8   | 7,7<br>E,  | 3                               | , <u>B</u>                           | 2,1   | #  | 냽   | ដ  | 1.3<br>1.5               | 持                                       | 6.1<br>9.6<br>4.6<br>1.8<br>1.7 | 1.3  | 1.8<br>1.8              | 20<br>18                      | 2.1<br>1.9                 |
| 25<br>et                                     | Nemdarship gods  | 37.8<br>12.7       | 42.2<br>13.9                                       | 41.5<br>14.2                    | 48.3<br>15.5                         | 52.5<br>16.5                                      | 55.0<br>16.8   | 57.1<br>16.B  | 58.7<br>16.9   | 63.4<br>17.9             | 69.5<br>19.1                            | 74.I<br>19.7                    | 75.9<br>19.5                                 | 77.8<br>20.2            | 79.8<br>20.5                  | 81.3<br>20.5               |
| 22222222222222222222222222222222222222       | Food and kindred products Tobacce manufactures   | 6.0                | 5.5  | 5.7                             |                                      | 6.6   | 10,5   | 6.7   |  | 6.9                      | 7.3                                     | 7.5                             | .6<br>7.3                                    |                         | 72                            | 7.2                        |
| 29   | Textile usid products Apperel and other textile products   | 8.7                |  | 7.9                             | 1.0                                  | 1.0<br>5.4  | 57<br>1.0<br>57<br>29  | 1.0   | 5<br>6.6<br>1.0<br>5.4<br>3.1<br>12.8<br>12.8<br>2.0 | 10                       | t.3                                     | i.i<br>92                       | 1.1  | 7.3<br>1.2<br>10.0      | 12<br>102                     | 12                         |
| ä  | Paper and allied products Printing and publishing Committe and allied products   | 18<br>7.1          | 4.2<br>2.1<br>7.9<br>5.4<br>1.3                    | 23<br>23<br>23<br>56            | 1.9<br>2.8<br>9.8                    | 2.8   | 29   | 8.0<br>8.0  | 33   | 3.4                      | 8.5<br>3.8                              | 4.1                             | 9.6<br>4.8                                   | 4.5                     | 4.8                           | 5.0                        |
| 33   | Materia de la contraction de l | 4.7                | 54   | 5.6                             | B.2                                  | 10.5<br>6.9<br>1.7                                | 13.4<br>7.5  | \$0<br>122<br>8.2<br>1.9                            | 127  | 14.0<br>9.6<br>2.3       | 16.7<br>10.8                            | 18.9<br>11.6                    | 17.6<br>11.9                                 | 18.9<br>12.1            | 18.7<br>12.2                  | 19.4<br>12.5<br>3.5        |
| 24<br>35                                     | Rabber and injuryllapaceus plantic products<br>Leather and leather products  | 1.1<br>.5          | 1.3  | 1.8<br>5                        | 1.4<br>.6                            | .5  | 1.B  | 1.9<br>.5   | 2.0  | 2.5                      | 2.B<br>.B                               | 2.8<br>.6                       | 29<br>.8                                     | 3.1<br>.6               | 9.5                           | 3.5                        |
| 36   | Transportation and public utilities  | t14.L              | 129.9  | 135.5                           | 146.3                                | 167.0   | 145.4  | 173.3   | LTRA   | 190.6                    | 209.9                                   | 223.7                           | 283.0  | 249.7                   | 246.7                         | 249.4                      |
| 37<br>38<br>38                               | Transportation Railroad transportation   | 76.7<br>81.9       | 81.6   | 8.5<br>8.5<br>7.5<br>6.9<br>6.9 | 86.3<br>86.2<br>7.8<br>8.7           | 90.2<br>52.3                                      | 92.8<br>58.6<br>7.7<br>8.1<br>6.7<br>1.7   | 947<br>97.6<br>97.6<br>97.6<br>97.6<br>97.6<br>97.6 | \$4.0<br>54.9  | 97.9<br>60.8             | 108.6                                   | 207.4<br>85.1                   | 109.0<br>86.3<br>7.0                         | 109.3<br>65.5           | 109.6<br>64.1                 | 168.9<br>52.9              |
| 39<br>40                                     | Local and interurben passenger transit   | 51.8<br>7.1        | 7.6  | 7.7                             | 7.8                                  | 7.8   | 7.7  | 7.6   | 59.2<br>7.8<br>8.4<br>7.4<br>2.1                     | 7.4<br>9.8               | 68.4<br>7.7<br>10.8                     | 65.1<br>7.8<br>10.9             | 7.6  | 65.5<br>6.8<br>11.6     | 65                            | 123                        |
| 41   | Local and Interarban passenger transit   | 48<br>55<br>10     | 14   | 19<br>19                        | 1.4                                  | 64  | 67   | 73  | 7.4  | 1 74                     | 32<br>29                                | 87<br>33                        | 1 2a'  | 9.0                     | 11.8<br>9.1<br>4.9            | 9.3                        |
| 42<br>43<br>44                               | Pipelines, except natural gas  | 4.5<br>1.9         | 816<br>549<br>7.6<br>8.6<br>8.9<br>1.1<br>50<br>20 | 53<br>22                        | 5.6<br>2.4                           | \$0.2<br>\$8.3<br>7.7<br>6.4<br>1.5<br>5.8<br>2.7 | 6.1<br>28  | 64<br>80  | 6.5<br>8.0   | 2.3<br>8.9<br>3.2        | 7.5<br>S.5                              | 7.8<br>3.8                      | 3.7<br>7.9<br>3.9                            | 4.4<br>7.9<br>4.0       | 7.9<br>4.3                    | 9.8<br>6.6<br>7.7<br>4.4   |
| 45   | Communication  |                    | 143  | 16.6                            | 17.5                                 | 19.4  | 20.9   |   |  | 26.6                     | 29.9                                    | 324                             |  | 36.8                    | 39.5                          |                            |
| 46<br>67                                     | Telephone and telegraph Radio and television broadcosting  | 116                | 184  | ilī                             | 16.5                                 | 183<br>1.1  | 19.7   | 225<br>21.4<br>1.2                                  | 24.2<br>22.9<br>1.2                                  | 253<br>13                | 28.4<br>1.5                             | 30.7<br>1.7                     | 54.2<br>32.5<br>1.8                          | 350<br>19               | 37.5<br>2.0                   | 41.6<br>39.6<br>2.2        |
| 21<br>10<br>18<br>18                         | Electric gas, and sanitary services  | 30.9<br>17.6       | 34.0<br>19.9                                       | 87.4<br>22.3<br>12.1            | 42.5<br>25.9                         | 47.4<br>29.0                                      | 51.7<br>31.0   | 58.6<br>85.5  | 60.4<br>38.5   | 68.8<br>62.8             | 75.4<br>49.2                            | 88.9<br>64.4                    | 89.6<br>88.5                                 | 94.6<br>61.7            | 97.5<br>63.8                  | 99.3<br>64.8               |
| \$0<br>51                                    | Cas services   | 17.6<br>9.5<br>3.0 | 110  | 12.1                            | 35.9<br>18.7<br>8.1                  | 15.2<br>8.3                                       | 31.0<br>16.5<br>3.3  | 85.5<br>17.9<br>3.5                                 | \$8.5<br>18.7<br>8.2                                 | 29.7<br>3.8              | 49.2<br>23.6<br>5.6                     | 25.9<br>3.7                     | 88.5<br>27.6<br>3.1                          | 29.2<br>3.6             | \$0.L<br>3.6                  | 30.9                       |
| 52   | Whatesale trade  | 5.0                | 6.6  | 6.9                             | 7,7                                  | 8.5   | 8.9  | 9.8   | 9.7  | 10.7                     | 81.0                                    | 11.8                            | 12.3   | 13.7                    | 14.3                          | Į4.B                       |
| 23   | Relati trade   | 20.3               | 22.0   | 31.7                            | 343                                  | 26.8  | 17.1   | 27.7  | 28.3   | 34.5                     | 32.6                                    | 33.8                            | 24.4   | 35.5                    | 26.2                          | 37.3                       |
| и  | Finance, losarance, and real estate  | 40.4               | 426  | 48.6                            | 48.8                                 | \$2.7   | 55.6   | 57.6  | 60.2   | 96.6                     | 748                                     | 77.6                            | 30.5   | 84.9                    | 69.3                          | 93.4                       |
| 55<br>58                                     | Gredit agencies other then benis   | 4.8<br>1.5<br>3    | 14   | 3000                            | 4.6<br>L7                            | 6.9<br>1.3  | 4.9<br>2.1   | 4.9<br>2.2  | \$.0<br>2.8  | 5.4<br>2.5               | 5.9<br>2.8                              | 6.L<br>2.5                      | 6.3<br>3.1                                   | 6.6<br>8.3              | 6.7<br>3.5                    | 7.1<br>3.6                 |
| 57<br>58                                     | Security, commodity brokers and services   | 3                  | 1.6<br>1.6<br>2<br>9                               | 3                               | 1.0                                  | 12  | 4.9<br>2.1<br>2.2<br>1.2   | 4.9<br>2.2<br>1.9                                   | \$.0<br>2.3<br>1.4                                   | 1.5                      | 1.7                                     | 1.8                             | 1.9  | 2.0                     | 2.1                           | 22                         |
| 2888999<br>288899                            | insurance agenta, brokers, and styrices  | 32.8               | 35.0   | .4<br>35.5                      | 3 <b>9</b> .7                        | Azutada   | 46.2   | KS I  | .8<br>50.1   | .6<br>63.6               | 1.7<br>61.9                             | 65.0                            | តវិ  | นจ์                     | 10<br>78.6                    | านี้                       |
| 1  | storough and other in sestment combastra-  | .3                 | .5   | .4                              | A                                    | .9  | .5   | 47.8<br>.5  | .5   | -5                       | .0                                      | .5                              | .6   | -6                      |                               | 7                          |
| 62   | Services   |                    | 17.4   | 17,5                            | 19.4                                 | 23.4  | 22.5   | 23.9  | 25.4   | 28.3                     | 31,4                                    | 34.2                            | 35.5   | 39.f                    | 415                           | 44.8                       |
| 88<br>84                                     | Personal services  | 5.4<br>1.8         | 5.7<br>1.5   | 15                              | 5.8<br>1.7                           | 50<br>2.9<br>2.3                                  | 80   | 23  | 6.0<br>2.3   | 84<br>84<br>84<br>83     | 6.4<br>2.8                              | 5.5<br>3.0                      | 3.2  | 7.2<br>3.4              | 7.6<br>3.6                    | 8.2<br>8.9<br>6.0          |
| 66<br>66                                     | Auto repair, services, and garages,  | 1.7<br>1.1         | 1.B<br>1.8   | 1994                            | 1.7<br>20<br>1.6                     | 1.9   | 2.5<br>2.2   | 2.7   | 2.9<br>3.2   | 8.0<br>3.3               | 28<br>3.9<br>4.7                        | 3,0<br>4,3<br>8,4               | 4.7<br>5.9                                   | 8.4<br>6.1<br>6.5       | 5.4<br>7.0                    | 5.8<br>3.4                 |
| 64<br>66<br>67<br>88<br>89<br>71<br>72<br>78 | Miscellaneous repair services  | .6                 | 1.81   | 4                               | 4                                    | , <u>6</u>  | 60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 | 59<br>227<br>248<br>48<br>48<br>220                 | 2999984841<br>2521                                   |                          | 70                                      | 1.0                             | 8.8<br>3.2<br>4.7<br>5.9<br>11<br>5.8<br>8.6 | .9<br>1.1<br>5.4<br>9.4 | 1.0<br>1.2<br>5.4             | 1.1                        |
| 59<br>70                                     | Administration arrivates   | 3.1<br>2.7         | 8.3<br>8.5<br>1.2                                  | **********                      | 8.7<br>8.8                           | 4.0<br>4.2<br>1.8                                 | 4.1  | 4.8   | 5.8  | 4.7<br>6.0<br>2.7<br>1.1 | 5.0<br>3.2<br>1.3<br>.5<br>2.0          | 5.2<br>7.9<br>3.7               | 8.8  | 9.4<br>9.4              | 10.1                          | 5.B                        |
| 71<br>72                                     | Legal stryicts   | 100                | 1.2  | 1.3<br>.8                       | 1.5<br>.0                            | .0  | 1.0  |   | 24<br>14   | 2.1<br>1.1               | 5.2<br>1.5                              | ן קון                           | 4.]<br>1.4<br>.6                             | 1.6                     | 1.5                           | 5.2<br>1.5                 |
| 78<br>74                                     | Sducstlonal services   | .7<br>.7           | 8 21.65  | . <b>2</b>                      | 1.0                                  | .â<br>1. <b>2</b>                                 | 12   | 14  | .4<br>J.5  | .5<br>1.7                | 2.5                                     | 2.8                             | .6<br>2.6                                    | 5.8                     | i,<br>L                       | 2.4                        |
| 76   | Residential  | 228.9              | 379.5  | 372.5                           | 40.6                                 | 466.1   | 476.0  | 491.6   | 524.5  | 568.9                    | 67£.2                                   | 691.7                           | 611.7  | 6\$1.3                  | 654.B                         | 874.0                      |
| 76<br>77                                     | Parine Real existe   | 29.2<br>309.7      | 31.9<br>341.2                                      | 30.7<br>341.8                   | 93.5<br>186.2                        | 35.8<br>419.9                                     | 86-8<br>440-1  | 95.9<br>455.1                                       | 86.4<br>477.9  | 37.2<br>609.9            | 37.8<br>537.4                           | 97.6<br>554.1                   | 87.5<br>674.2                                | 37.4<br>596.9           | 37.3<br>B17.5                 | 686. <b>6</b>              |

Batimates are as of the end of the year.
 Consists of social services, resubstrate organizations, and miscellaneous professional services.

Nonresidential and Residential, by Industry, 1947–81  $^{\circ}$  of deliars)

| 1962  | 8991   | 1964  | 1965  | 1966  | 1967  | 1945   | 1969  | 1970   | 1971   | 1972  | 1973  | : 1974   | 1975  | 1976  | 1977  | 1978  | 1979   | 1980   | 1981  | Line   |
|---|--|---|---|---|---|--|---|--|--|---|---|--|---|---|---|---|--|--|---|--|
| 1.461.4   | 1,492.4  | 1,674,7   | 1,665.0   | 1,304.9   | 1,928.0   | 2,128.7  | 2,348.6   | 2,562.2  | 2.797.4  | 1,061.3   | 1,529.4   | 1.197.6  | 4,550.0   | SUSSE.  | 1,781,0   | 6.614.5   | 7,5707   | 8,517.6  | 0,4181  | 1  |
| 754.5   | <b>783.9</b> .   | . 824.3   | · 845,2   | 963.7   | 1,845.0   | 1345.1   | L <b>28</b> 1.1   | 1,429.6  | 1,546,6  | 1.688.9   | 1,949.3   | 2,371.9  | 2,612.0   | 2,825,6   | 2,173,5   | 3,446.2   | 4,129.3  | 4,724.5  | 5,2624  | 2  |
| 56.1  | \$7.E  | 58.7  | . 62.0  | . 61.4  | 72.0  | 77.3   | 85.4  | 95.5   | 98.5   | 1,07.6  | 121.5   | 151.8  | 145.5   | 182.8   | 207.5   | 225L5   | 279.1  | 316.9  | 345.6   | *  |
| 52.9<br>8.3   | 8.4  | 66.1<br>3.6                                       | 59.2<br>5.9   | 69.3  | 4.4   | 72.4<br>4.8  | 80.1<br>5.3   | 61   | 91.8<br>6.7  | 100.6<br>7.2  | 118.5<br>B.6  | 9.7  | 156.0<br>10.5   | 171.8   | 194.0   | 224.1<br>16.5   | 260.7<br>18.4  | 296.6<br>21.3  | 321.5<br>23.8   | 6  |
| 6L.5  | 52,9   | 55.6  | 59.5  | 65.0  | 14.6  | 78.7   | 84.8  | 86.1   | 91.4   | 99.6  | 109.6   | 147.2  | 169.6   | 180.9   | 211.8   | 268.4   | 297.1  | 355.6  | 161.4   | 6  |
| 3.4<br>2.5<br>48.9<br>2.1                                   | 45<br>25<br>44.5   | 97<br>27<br>467<br>24                             | 41<br>23<br>49.9<br>27                                | 4.5<br>3.9<br>64.4  | 4.9<br>57.0   | 54<br>37<br>508  | 61<br>41<br>65.6  | 68<br>48<br>700  | 7.4<br>5.2<br>78.6<br>5.1                                  | 8.2<br>5.9<br>19.6<br>5.6   | 9.4<br>88<br>87.2<br>8.3  | 11.8<br>6.8<br>118.7<br>7.9  | 13.0<br>10.4<br>128.4<br>8.9  | 14.4<br>12.1<br>144.6                                       | 16.7<br>15.4  | 19.8<br>18.7<br>1 <b>99.</b> 2<br>12.8                                      | 24.2<br>22.7<br>285.2<br>16.0                                | 28.8<br>27.3<br>281.7<br>17.6  | 33.1<br>32.1<br>366.3   | 8<br>9<br>10   |
| 1 1   | 44.5<br>2.2  | 1   | ì   | 8.0   | . 3.4   | 50.8<br>5.8  | 65.6<br>4.8   | 4.7  | 1  | 1   |   |  | 1   | 144.6<br>9.8  | 198.5<br>11.2   | 1   | ]  | 1  | 20.1  | 1  |
| 14.9<br>175.8   | 15.6<br>182.7  | 26.7<br>282.4                                     | 267.5   | 19.8<br>231.4   | 20.9  | 279.4  | 25.4<br>312.9   | 26.2<br>342.8  | 30.4 ·   | 52.5<br>396.6   | 37.0<br>449.5   | 47.5<br>647.1  | \$3.9<br>\$86.4   | 58.Z<br>689.3   | 745.9   | 75.5<br>847.9   | 965.8  | 1,1104   | 1,531.1   | 12   |
| <b>32.0</b>   | \$5.7  | 101.6   | - LID.\$  | 125.9   | 187.1   | 151,6  | 165.6   | 197.2  | 200.1  | 214.1   | 297.9<br>10.8   | 205.0  | 3728.6  | 352.9   | 599.8   | 454.9   | 523.6  | 608.2  | 673.0   | 13   |
| 12<br>13<br>83<br>85<br>95<br>125<br>121<br>15<br>129       | 1.4<br>1.8<br>8.8  | 4.6<br>1.4<br>9.3                                 | 5.5<br>1.5<br>9.9                                     | 8.5<br>1.7<br>21.0  | 5.8<br>1.9<br>11.5  | 8.4<br>2.1<br>12.5   | 7.2<br>2.4<br>13.9  | 9.8<br>9.6.1   | 8.6<br>2.8<br>16.1   | 9.5<br>3.2<br>17.8  | 19.8<br>8.7<br>19.4   | 13.8<br>4.5<br>24.0  | 15.8<br>4.9<br>25.5   | 16.7<br>5.3<br>29.4   | 19.1<br>5.0<br>32.2   | 22.1<br>7.6<br>36.3   | 25.5<br>8.0<br>42.0  | 29.1<br>9.1<br>48.2  | 31.8<br>9.8<br>82.4   | 14<br>16<br>16<br>17<br>18<br>19<br>20<br>81<br>22<br>23 |
| 25.6<br>9.5   | 25,5<br>9.9  | 28.0<br>10.6                                      | 80.2<br>11.6<br>16.5<br>9.4                           | 11.0<br>33.7<br>13.0  | 27.1<br>14.5  | 41.0   | 46.8  | 306  | E2 K   | 55.8<br>23.0<br>32.2<br>22.4<br>24.1<br>14.6                      | 604<br>25.7   | 74.1<br>32.0   | 83.0<br>83.0<br>80.7<br>49.3<br>86.0<br>88.0<br>21.6                | 89.7<br>35.8  | 100.0   | 111.4   | 12.6<br>125.2<br>88.6<br>82.7<br>59.7<br>59.9<br>84.7        | 141.5  | 82.4<br>185.7<br>75.5<br>108.7  | 17   |
| 7.5<br>11.7   | 14.3<br>7.9<br>12.7  | 162<br>85<br>131                                  | 9,4<br>14.4   | 18.6<br>11.0<br>16.0  | 21.0<br>12.6<br>17.3  | 14.4   | 18.2<br>28.8<br>16.6<br>30.7<br>11.7  | 18.7<br>22.8   | 21.6<br>B0.2<br>20.6<br>24.5                               | 22.4<br>23.1  | 25.7<br>25.7<br>25.7<br>25.7<br>28.4<br>18.2<br>7.5                               | 32.8<br>34.8<br>34.8   | 36.0<br>28.6  | 89.4  | 114   | 50.8<br>70.5<br>51.0<br>51.9  | 59,7<br>59,7   | 26.3<br>70.9<br>88.0   | 106.7<br>81.2<br>78.9   | 100<br>81  |
| 54  | 25.6<br>9.9<br>14.3<br>7.9<br>12.2<br>6.9<br>2.4<br>2.0                    | 280<br>104<br>152<br>85<br>131<br>63<br>26        | 61<br>28<br>22  | 1.5<br>3.2  | 8.0<br>8.7<br>2.6   | 16.1<br>29.2<br>14.4<br>18.8<br>10.9<br>4.2<br>2.8                           | 11.7<br>4.9<br>82   | 20.1<br>28.4<br>18.7<br>22.8<br>12.9<br>5.5  | 13.6<br>6.1<br>3.7   | 6.8   | 16.2<br>7.5   | 1 970  | 10.5  | 89.7<br>38.8<br>53.6<br>89.9<br>40.1<br>23.3<br>11.3<br>6.7 | 44.5<br>61.1<br>44.4<br>45.7<br>26.2<br>12.9                        | 14.8  | 84.7<br>17.4<br>9.9  | 40.1<br>20.1   | 22.6<br>12.2  | 22   |
| 83.8  |  | \$0.9   | l   | 107.5   | l .   | ſ  | l   | 3.5  |  | 181.5   | 2026  | 5.6<br>252.i   | 279.8   | 1   | 7.0   | 8.7   | 1  | 11.8<br>597.2  | 1   |  |
| . 20.J  | 81.0<br>21.5<br>2  | \$2.5<br>.8<br>7.4                                | 97.2<br>29.6  | 25.4<br>1.0   | 116.8<br>27.1<br>1.0<br>9.1                                     | 127.8<br>29.0<br>1.1<br>9.7<br>2.5<br>17.5                                   | 142.5<br>3).5<br>1.3<br>10.6  | 156.7<br>84.4<br>1.4   | - 168.9<br>86.7<br>1.5<br>12.6<br>3.6<br>22.4              | 181.5<br>39.3<br>1.5  | 202.6<br>43.8<br>1.9<br>13.4  | 252 i<br>53.0<br>2.4<br>19.2<br>6.7<br>32.5<br>18.2                | 279.8<br>87.8<br>2.7<br>20.9  | 306.4<br>62.6<br>2.9<br>22.5<br>5.7                         | 346.1<br>70.2<br>3.3<br>25.0<br>7.5                                 | 293.0<br>79.5<br>3.8  | 446.2<br>89.8<br>4.4<br>80.9                                 | 507.2<br>161.5<br>5.1<br>34.2<br>10.7                                | 668.2<br>110.6<br>6.2   | 25<br>25<br>28<br>28<br>28<br>31<br>28<br>31<br>32<br>33 |
| 7.2<br>1.3<br>11.0  | 1.2<br>1.4<br>11.5   | 18  | . 7.7<br>1.7<br>13.1                                  | 8.5<br>1.9<br>14.7  |   | 2.5<br>17.6  | 19.6  | 1.4<br>11.7<br>8.2<br>21.1   | 3.6<br>22.4  | 13.6<br>4.0<br>28.7   | 883   | 5.7<br>32.5  | 6.2<br>87.0   | 6.7<br>40.9   |   | 28.0<br>8.5<br>52.1<br>27.7   | 9.5<br>59.4<br>31.7  | 06.6   | 6.2<br>36.8<br>11.5<br>76.1   | 28<br>34   |
| 1.3<br>11.0<br>5.2<br>20.2<br>12.8                          | 11.5<br>8.6<br>81.0<br>13.1  | 5.8<br>22.3                                       | 24.f  | 7.0<br>27.5   | 7.8<br>80.2   | 8.7<br>83.3  | 9.8<br>37.2   | 2[_]<br>10.9<br>4[_4   | 413  | 28.7<br>12.9<br>48.0<br>26.0                                      | 14.7<br>58.4  | 0.00   | 19.7<br>77.0<br>88.7  | 85.9<br>85.9  | 88.1  | 1 111.8   | 126.#  | S deploy   | 76.1<br>39.9<br>159.7   | 31<br>32   |
| 8.8   | 40   | 12.1<br>12.3<br>12.4<br>13.4                      | 14.1<br>4.5   | 14.7<br>7.0<br>27.5<br>15.1<br>5.5                                  | 16.1<br>7.8<br>80.2<br>16.3<br>6.3                              | 27<br>23.3<br>17.8<br>7.1  | 9.8<br>87.2<br>20.2<br>8.2<br>1.0   | 9.8<br>L1  | 24.2<br>10.1<br>1.1  | 11.1<br>1.2   | 28.9<br>12.8<br>1.3   | 85.9<br>18.4<br>1.6  | 18.2<br>1.7   | 15.8<br>18  | 24.1<br>98.1<br>97.2<br>22.7<br>2.0                                 | 59.4<br>26.2<br>2.2   | 81.1<br>30.1<br>2.4  | 144.8<br>89.5<br>34.2<br>2.1   | 159.7<br>77.2<br>37.3<br>29   | 34<br>  35   |
| 255.1   | \$61.2   | 270.2   | 78ri  | 202.0   | 235.3   | 364.3  | 268.2   | 432.4  | 476.4  | 8413  | 584.8   | 715.3  | 816.9   | 878.2   | 967.1   | 1.073.7   | 1,0944   | 1.3602   | 1,604.7   | \$6  |
| 109.4<br>6]_9<br>5.6  | 198.0<br>69.9<br>1.6<br>13.2   | 109-9<br>60-5<br>5-3<br>18-9<br>9-9<br>7-5<br>4-9 | 111.7<br>69.4   | 1162<br>612   | 120.8<br>61.5<br>5.2  | 128.4<br>63.6  | 188.3<br>66.8   | 150.2<br>70.9  | 158.0<br>73.8<br>5.6                                       | 168.1<br>76.4<br>6.6  | 1847<br>81-6  | 226.B<br>190.1   | 25]_1<br>109.3<br>7.8   | 230.4<br>133.2<br>7.6                                       | 296.4<br>121.0<br>8.1<br>50.0<br>32.2<br>38.5<br>25.8<br>22.8       | \$30.2<br>133.1<br>8.7  | 376.0<br>. 147.5   | 494.0<br>188.7   | 453.3<br>188.6  | 87<br>88   |
| 128   | 13.2   | 5.3<br>18.9                                       | 60.4<br>5.3<br>14.6                                   | 1162<br>612<br>63<br>166<br>197                                     | 16.0  | 17.8<br>17.8   | 5.3<br>19.2   | 5.4<br>912   | 22.6<br>22.6<br>33.6                                       | 24.8<br>17.0  | 184.7<br>81.6<br>5.8<br>25.8<br>13.5<br>34.4                                      | 35.5   | 7.8<br>29.6   | 484   | 81<br>500   | 59.2  | 9.2<br>89.5  | 10.1<br>80.7   | 10.6<br>88.3  | 89   |
| 128<br>9.4<br>9.4<br>7.7<br>4.5                             | 9.7<br>6.8<br>7.5<br>4.7   | 7.5   | 10.2<br>8.0<br>7.8<br>5.4                             | 7.8   | 16.0<br>11.3<br>11.4<br>8.3                                     | 63.6<br>62<br>17.8<br>12.2<br>14.0<br>8.8                                    | 66.8<br>5.3<br>19.2<br>12.9<br>16.6<br>9.1  | 14.6<br>18.9<br>9.9<br>9.6   | 20.1   | 21.6<br>11.3  | 34.2<br>12.6  | 28.9<br>28.1<br>16.8   | 29.6<br>28.8<br>39.6<br>19.3  | 25.0<br>34.1<br>23.1<br>21.0                                | 35.5<br>25.8  | 59.2<br>38.4<br>39.1<br>28.6<br>25.3  | 9.7<br>89.5<br>42.9<br>46.0<br>\$1.2<br>28.8                 | 182.7<br>16.1<br>80.7<br>49.5<br>68.2<br>34.6<br>33.2                | 185.5<br>10.6<br>88.3<br>66.9<br>59.6<br>86.9<br>25.4                               | 87<br>88<br>89<br>40<br>11<br>42<br>44                   |
| 45  | - 1  |   |   | 6.1<br>40 a   | 6.7<br>68.9   | 7.4<br>78.2  | 8.5<br>Et.6   | 9.6<br>-1022   | 10.3   | 13.4  | 12.6<br>12.2  | 16.1<br>171.0  | 19.4  | L   |   | 25.3<br>259.6   | 28.8<br>298.6  | 33.2<br>337.4  | 25.4<br>585.4   |  |
| 421<br>23   | 48.2<br>45.6<br>2.6  | 51.4<br>48.6<br>2.8                               | 56.1<br>53.0<br>3.1                                   | 62.3<br>55.8<br>8.6   | #15<br>#15  | 73.7<br>4.5  | 82.5<br>5.1   | 98.4<br>6.6  | 1163<br>109.8<br>4.4                                       | 128.9<br>121.8<br>7.1   | 146.9<br>137.9<br>8.0   | 161.8<br>9.7   | 201.7<br>190.9<br>10.9  | 214.2<br>202.6<br>11.7                                      | 224.]<br>221.0<br>12.0  | 245.0<br>14.7   | 276.9<br>16.7  | 817.8<br>19.1  | 341.8<br>21.6   | 45<br>46<br>47   |
| 1023<br>67.3<br>81.4<br>84                                  | 104.9<br>76.3<br>80.9<br>8.7   | 169.7<br>74.2<br>\$1.7<br>8.8                     | 116.2<br>78.5<br>33.8<br>3.9                          | 124.5<br>84.7<br>35.7   | 135.5<br>93.5<br>37.7   | 147.6<br>142.5<br>40.6   | 162-2<br>114.0  | 190.3<br>127.7<br>47.0   | 200.2<br>143.2<br>50.9                                     | 216.7<br>156.3<br>53.9<br>6.6                                     | 950.8<br>182.9<br>60.8  | 913.5<br>197.7<br>78.6   | 364.0<br>268.5<br>85.9  | 393.5<br>394.0<br>89.5<br>10.0                              | 485.7<br>328.9<br>96.1<br>11.1                                      | 483.8<br>364.7<br>106.6<br>12.5   | 595.2<br>593.9<br>117.0                                      | 599.2<br>483.2<br>120.2<br>15.7                                      | 668.1<br>508.1<br>141.7<br>16.9   | 21<br>20<br>13   |
|   | - 1  |   |   | 4.1   | 9.3   | 4.5  | 43.9<br>5.0   | 5.6 .  | 6.0  |   | T.4   | 9.1  | ₽.6   | ]   | 1   |   | 145  | l .  |   | l  |
| .15.9<br>38.6   | 17.4<br>61.8   | (9.5<br>42.6                                      | 21.3<br>46.0  | 24.L  <br>54.6  | 28.5<br>55.1  | 30.5<br>66.9   | 35.1<br>89.6  | **.2<br>17.3   | 44.6<br>. 84.2   | 49.5<br>92.6  | 58.2<br>1 <b>0</b> 7.6  | 73.4<br>123.7  | 79.6<br>138.6   | 251.6   | 161.1   | 117.6<br>201.4  | 135.2<br>234.9   | 154.9<br>288.5   | 165.7<br>293.5  | 52<br>53   |
| 99.0  | 105.0  | 1125  | 192.7   | 135.6   | 148.4   | 164.4  | 191-1   | 2146   | 297.1  | . 261.8   | 345.9   | 377.3  | 392.6   | 415.0   | 487.0   | 537.5   | 614.4  | 71T.1  | 773.6   | 54   |
| 7,8<br>3.8  | 8.1<br>4.0   | 8.8<br>4.6  | 9.7<br>6.1  | 10.5<br>8.8   | 121<br>8.6  | 18.7<br>7.8  | 15.2<br>9.4   | 18.8<br>Ja.8   | 20.5<br>12.4   | 29.2<br>14.0  | 27.4<br>16.5  | #4.8<br>22.4   | 37.6<br>26.4  | 41.4<br>80.9  | 87.5<br>87.2  | 56.8<br>48.9  | 67.6<br>51.5   | 79.6<br>60.1   | 89.8<br>87.7  | 55<br>56   |
| 23  | 2.4  | 2.7<br>1.0  | 3.0   | 8.8<br>8.8  | 3.8   |  | \$ <u>0</u>   | 1.1<br>5.6   | 1.2<br>6.2   | 1.3<br>6.8  | 1.5   | 1.8<br>9.5   | 19.0  | 10.6  | 120   | 18.9  | 2.8<br>16.0  | 82<br>18,1   | 18.6  | 57<br>58   |
| 7,6<br>3,8<br>4<br>2,5<br>1,2<br>82,9                       | 4.0<br>2.4<br>1.2<br>88.0  | 46<br>5<br>27<br>13<br>938                        | 8.0<br>8.0<br>14<br>101.9                             | 58<br>5<br>33<br>14<br>1124<br>12                                   | 8.6<br>.?<br>3.8<br>1.5<br>128.6<br>1.3                         | 18.7<br>7.8<br>.8<br>4.8<br>16<br>124.8                                      | 9.4<br>5.0<br>1.7<br>158-2<br>1.8   | 188<br>148<br>11<br>56<br>18<br>1748<br>21   | 20.5<br>12.4<br>1.2<br>6.2<br>1.9<br>192.4<br>2.5          | 29.2<br>14.0<br>1.8<br>6.8<br>2.0<br>213.5<br>2.3                 | 27.4<br>16.9<br>1.5<br>7.8<br>2.5<br>245.9<br>2.5                                 | 22.4<br>1.8<br>9.5<br>27,<br>301.8<br>48                           | 37.6<br>26.4<br>1.9<br>19.6<br>2.8<br>309.5<br>4.6                  | 30.9<br>20<br>10.6<br>28<br>323.2                           | 77.5<br>87.2<br>2.2<br>12.0<br>8,8<br>269.2<br>5.8                  | 56.3<br>48.5<br>18.9<br>8.8<br>410.6<br>6.3                                 | 67.6<br>51.6<br>2.8<br>16.0<br>4.3<br>675.1<br>7.1           | 79.6<br>80.1<br>8.2<br>18.1<br>4.7<br>538.1<br>7.9                   | 89.8<br>87.7<br>3.4<br>19.6<br>5.0<br>579.9<br>8.4                                  | 56<br>57<br>58<br>59<br>60<br>61                         |
| 47.1  | 80.7   | 56-1  | 60.1  | 67.1  | 719   | 68.2   | B3 <b>.5</b>  | 106-2  | 114.1  | 129.I   | 143   | 182.8  | 196.1   | 216.5   | 234.4   | 265.1   | 348.3  | 360.3  | \$98.3  | 62   |
| 87<br>11  | 뱮  | 10.4  | 11.8<br>5.2   | 126<br>58   | 13.6<br>6.1   | 160<br>6.6   | 16.7<br>7.3   | 28.7<br>8.0  | 21.0<br>8.6  | 23.1<br>9.3   | 27.1<br>18.4  | 33.8<br>12.5   | 34.9<br>13.3  | 36.2<br>14.2  | 39.6<br>15.5  | 45.3<br>17.4  | 54.8<br>12.7   | 61.3<br>22.7   | 66.8<br>29.1  | 83<br>64   |
| 13  | 8.4<br>1.2   | 9.0<br>3.3  | 9.9<br>1.4  | 11.3<br>1.5   | 12 i  | 13.3<br>13.3   | 16.7<br>15.0<br>2.1   | 19.6<br>16.6<br>2.5  | 23.1<br>17.7.  | 28.0<br>19.4<br>8.1   | 38,6<br>21.9<br>2.5   | 38.5<br>28.0   | 39.5<br>29.7<br>6.6   | \$1.5<br>29.1<br>34.1                                       | 88.1  | 43.6<br>7.8   | 56.B<br>8.4  | 10.3<br>58.0<br>9.7  | 78.8<br>65.4<br>10.7  | 65<br>66<br>67   |
| 13  | 13   | 15  | 1.0   | 1.8<br>7.4  | 2.6<br>7.9  | 22<br>64   | 2.6<br>9.3  | 2.9<br>10.2  | 3.2<br>11.0  | 3.5<br>[1.9   | 18.2  | 16.1   | 17.2  | 18.1  | 6.3<br>19.8   | 7.1<br>21.8   | \$3<br>24.4  | 9.2  | 29.2  | 88   |
| 87<br>4.1<br>6.2<br>7.3<br>1.3<br>6.0<br>11.9<br>5.8<br>1.6 | 9,4<br>6,3<br>6,8<br>8,4<br>1,2<br>1,4<br>6,8<br>12,9<br>6,3<br>1,7<br>8,8 | 78.4<br>7.4<br>9.0<br>1.5<br>6.6<br>14.1<br>1.9   | 118<br>523<br>8.8<br>1.1<br>7.0<br>15.4<br>7.8<br>1.9 | 126<br>58<br>97<br>11.5<br>12.5<br>7.4<br>17.1<br>8.2<br>1.0<br>8.3 | 13.6<br>6.1<br>11.6<br>12.1<br>2.6<br>7.9<br>18.3<br>9.4<br>2.7 | 15.6<br>14.8<br>14.8<br>12.2<br>12.3<br>12.3<br>14.6<br>14.5<br>14.5<br>14.5 | 16.7<br>7.3<br>16.7<br>15.1<br>15.1<br>15.1<br>15.1<br>15.1<br>15.1<br>15.1<br>15 | 28.0<br>19.6<br>19.6<br>19.6<br>19.2<br>19.2<br>19.3<br>19.4<br>19.4<br>19.4<br>19.4<br>19.4<br>19.4<br>19.4<br>19.4 | 21.0<br>82.1<br>17.2<br>22.2<br>11.0<br>29.6<br>8.4<br>9.6 | 28.1<br>9.1<br>28.0<br>19.4<br>3.5<br>11.9<br>17.4<br>8.1<br>10.9 | 27.1<br>29.4<br>39.9<br>21.9<br>3.5<br>41.<br>13.2<br>83.4<br>80.5<br>1.6<br>13.2 | 33.8<br>12.5<br>38.0<br>4.9<br>16.1<br>47.7<br>24.9<br>4.8<br>18.8 | 34.9<br>13.3<br>39.5<br>50.5<br>17.2<br>50.5<br>28.7<br>4.3<br>17.7 | 362<br>142<br>438<br>251<br>666<br>181<br>644<br>45<br>19   | 39.6<br>15.5<br>47.0<br>86.4<br>6.3<br>13.8<br>61.8<br>52.0<br>52.0 | 45.8<br>17.4<br>51.6<br>43.6<br>71.1<br>21.8<br>71.0<br>37.4<br>5.5<br>22.9 | 54.8<br>19.7<br>61.1<br>56.8<br>83.2<br>24.4<br>61.6<br>63.1 | 63.7<br>20.8<br>20.8<br>20.8<br>20.8<br>20.8<br>20.8<br>20.8<br>20.8 | 68.5<br>25.1<br>79.8<br>65.4<br>10.7<br>9.9<br>29.2<br>103.5<br>56.0<br>2.6<br>38.1 | 83 65 66 67 88 99 TI 12 83 14                            |
| 9.7   | 4.1  | .9<br>4.4   | .9<br>4.8   | 1.0<br>8.3  | 탩   | 12<br>85   | 1.8   | 13<br>86   | 1.4<br>9.5   | 1.4<br>10.9   | 1.5<br>13.2   | 1.5<br>16.8  | 17.7  | 19.1  | 26  | Z2<br>26.9  | 23<br>30.1   | 2Ã<br>84.6   | 2.5<br>38.1   | 13<br>14   |
| 6963  | 705.L  | 750.6   | 781.B   | 541.2   | 885.9   | 9824   | 1.007.7   | 1,341.4  | 1,284.9  | 1,358.0   | 1,619.1   | 1.025.5  | 1.978.0   | 2,23 <b>4</b> .L  | a.Ffg.£   | 3.075.4   | 3.411.4  | 2,793,0  | 4.146.7   | 75   |
| .87.8<br>689.5  | 38.6<br>671.5  | 27.5<br>713.1                                     | 37.9<br>745.0   | 881.6   | 40.\$<br>842.7  | 48.4<br>938.0  | 44.8<br>1,022.0   | 47.4<br>L094.1   | 56.1<br>1.20 <b>4.</b> 8                                   | 53.7<br>1,444.8   | 59.6<br>1,559.5   | 65.7<br>1,759.8  | 69.5<br>1,905.5   | 78.1<br>2,158.9   | 85.5<br>2,492.0   | 99.0<br>2,977.2   | 107.1<br>8,334.3   | 116.0<br>3,876.0   | 122.)<br>4,0246   | 76<br>77   |
|   |  |   |   |   |   |  |   |  |  | Щ.  |   |  |   |   | Щ.  |   |  |  |   |  |

Table 2.- Current-Dollar Net Stock of Fixed Private Capital,

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| Prod private equital.   941.0   950.0   300.   |                  |  |             |                |             |              |             |              |              |             |              |              |              |              |             |              | Billions     |
|--|------------------|--|-------------|----------------|-------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 2   Secretaria   | Line             |  | 1917        | 1948           | 1949        | 1850         | 1951        | 1962         | 1958         | 1954        | 1\$65        | 1956         | 1857         | 1958         | 1959        | 1960         | 1961         |
| Approximate freedom    | 1                | Fixed private capital  | 244.4       | 387.5          | 399.2       | 463.4        | 600.7       | 440,1        | 666.9        | 683.9       | 693.4        | 689.1        | 734.8        | 753.5        | 786.7       | #L3.2        | 839.5        |
| ** Approximate services, however, and fishecian.**  ** Approximate services.**  ** Approximate ser | 2                | Neuresidestiel   | 165.3       | 276.5          | 1863        | 788.0        | 132.7       | 207.7        | 253.2        | 273.0       | 299.B        | 236.7        | \$59.6       | इनके.2       | 189.4       | #14          | 4143         |
| Section   Sect   | 3                | 'Agriculture, fecestry, and fisheries  | 12.8        | 15.2           | 174         | 19.8         | 32.2        | 21.6         | 21.3         | 24.6        | 26.0         | 27.3         | 27.6         | 29.3         | 29.9        | 25.1         | 29,6         |
| Section   Sect   | 4 5              | Parried Springs Superior and Calumian  | 11.7        | 14.5           |             | 19.0         |             | 22.6         | 20.2         | 23.5        | 24.8         | 25.7         |              | 58.7         | 27.4        | 27.5         | 27.5         |
| Sect   March   Sect     |                  |  |             | 18.7           | 1           | 12.6         | 1 -         | 1            |              | ı           | [            | 1            |              |              |             | ľ            | 1 1          |
| Meserfichering   | _                | · -  | 1           |                |             | 1            | 1           |              |              |             | 1            | 1            |              | [            | 1           | 1 18         | , ,          |
| Meserfichering   | 9-1              | Off and ten extraction   | 7.5         | J .9           | 88          |              | .В          |              | ) <b>j</b>   |             |              | 1.0          | 21.2         | 22.2         | 28.5        | 22.6         | 24.0         |
| Derecht pool   |                  | Nonmetallic minerals, except fuela   |             | .6             | .6          | 7            | .7          |              | j .          | .5          |              | 1.0          | 1.1          |              | 11          | 1            |              |
| 16   |                  |  | )           | 1              | 1           | 1            |             | ľ            | ı            | l           | 1            | ı            | · -          | [            | 1           |              | , ,          |
| Store, they, and glass products  |                  |  | r           | 1              |             |              |             |              |              |             | 1            |              |              | L            |             |              | , ,          |
| Store, they, and glass products  | 14               | Lumber and wood products.  | 116.7       | 1.0            | 1.1         | 12           | 1.4         | 14           | 15           | 15          | 1.7          | 2.0          | 2,0          | 20           | 21          | 22           | "123         |
| Nonderschie products   | 16               | Stone, clay, and glass products  | 19          |                | 1 1.9       | 2.1          | 24          | 24           | 25           | 2.6         | 200          | 1 <b>1</b> 4 | 43           | 2            |             | 1.6          | ) <u>(</u>   |
| Nonderschie products   | 韻                | Mahrirotad matel russianto   | 12          | 1.9            | 13          | 23           | 2.8         | 2.9          | 1 1          | 3.4         | 1 200        | 115          | 4.8          | .4.9         | 163         | 14.3         | 164          |
| Nonderschie products   | 20               | Electric and electronic equipment  | 1.5         | [ 1.8<br>[ 1.8 | 13          | 24           | 22          | 24           | 3.6          | 27          | 30           | B.6          | 3.8          | 8.0          | 1.0         | 43           | [4]          |
| Nonderschie products   | 21               | Deher transportation equipment   | 17          | 20<br>         | 20          | 111          | 13          | 13           | 3.4          | 끊           | 8.5          | 2.6          | 8.0          | 5.B          | 8.0<br>8.1  | 82<br>82     | 8.2<br>8.2   |
| Nonderrichte products  | 28<br>24         | Instruments and related products   | 3           | A 5            | 14          | 5            | .6<br>.6    | 5            | . 6<br>E     | .6<br>.9    | 1 4          | . P          | 1.0          | 1.0          | 113         | 1.2          | 1.0          |
| ### Section   Se | 25               | Nondurable goods   | 21.1        | 28.9           | 24.7        | 27.1         | 29.4        | 30.6         | 31.7         | . 82,5      | 34.9         | <b>39.</b> 5 | 47.0         | 4L.6         |             | 453          | 44.0         |
| ### Section   Se | 27               |  | 2           | 7.5            | 7.5         | 2.2          | 2           | 8.7          | 2            | 87          | 9.1          | 8.7          | NA.          | 10.3         | 10.3        | 19.4         | 10.5         |
| Transportation and peakle calibles. \$4.5  | 25<br>29         | Appere) and other testile products   | 1 22<br>5   | 2.7            | 2.8         | 2.1          | 3.8         | 3.3          | 3.8          | 8.2<br>.6   | 8.8          | 8.4          | 3.4          | 8.5          | 8.2         | J.6-         | 8.2          |
| Transportation and peakle calibles. \$4.5  | 3 <b>9</b><br>31 | Printing and publishing  | 11          | 2.6<br>1.2     | 8.7<br>L3   | 3.0          | 2.5         | 8.4<br>L7    | 1.7          | 1.8         | 12           | 4.9<br>8.1   | 5.5<br>2.3   | 57<br>24     | 5.9<br>2.5  | 2.7          | 531<br>  531 |
| Transportation and peakle calibles. \$4.5  | 82<br>83         |  | 25          | 4.9            | 5.1         | 5.6:         | 83          | 6.9          | 7.4<br>60    | 7,7<br>5 d  | B.2          | 8.3<br>6.5   | 92           | 19.1         | 10.2        | 19.5         | 109          |
| Transportation and peakle calibles. \$4.5  | 84<br>85         | Number and miscrilensons pizatic products  | -6          | .7             | 7.7         | , <u>*</u>   | 3           | TO           | 11           | 1.2         | I I          | Lš           | l 1.4        | ı Lü         |             | l 1.9        | 2.0          |
| Transportation   |                  | '  | ļ           | _              |             | 1            | (           |              |              |             | L            |              |              |              | 1           | ! ·          | _ I          |
| Transportation services   1.0   1.1   1.3   1.5   1.7   1.7   1.6   2.0   2.1   2.2   2.3   2.4   2.5    1.0   1.1   1.3   1.5   1.5   1.5   1.5   1.5   1.7   1.8   2.0   2.1   2.2   2.3   2.4    1.0   1.0   1.1   1.3   1.5   1.5   1.5   1.5   1.7   1.7   1.8   1.8   2.5   2.9   2.6    1.0   Transportation workstation breakmanting   5.5   5 | अ                | Transportation,  | 31.8        | 34.6           | 38.6        | a1.1         | #0.1        | 41.0         | 42.5         | 42.6        | 44.1         | 47.5         | 49.9         | 50.4         | \$L0        | 50.5         | 60.9         |
| Transportation services   1.0   1.1   1.3   1.5   1.7   1.7   1.6   2.0   2.1   2.2   2.3   2.4   2.5    1.0   1.1   1.3   1.5   1.5   1.5   1.5   1.5   1.7   1.8   2.0   2.1   2.2   2.3   2.4    1.0   1.0   1.1   1.3   1.5   1.5   1.5   1.5   1.7   1.7   1.8   1.8   2.5   2.9   2.6    1.0   Transportation workstation breakmanting   5.5   5 | . 39             | Reliroed transportation  | 19.5        | 21.3<br>3.0    | 21.7<br>3.1 | 32.7         | 24.0<br>8.2 | 34.8<br>1.1  | 20.2<br>3.0  | 25.0<br>2.9 | 25.5<br>3.6  | 3.1          | 29.2         | 28.5         | 29.1<br>2.1 | 27.4         | 25.8         |
| Transportation services   1.0   1.1   1.3   1.5   1.7   1.7   1.6   2.0   2.1   2.2   2.3   2.4   2.5    1.0   1.1   1.3   1.5   1.5   1.5   1.5   1.5   1.7   1.8   2.0   2.1   2.2   2.3   2.4    1.0   1.0   1.1   1.3   1.5   1.5   1.5   1.5   1.7   1.7   1.8   1.8   2.5   2.9   2.6    1.0   Transportation workstation breakmanting   5.5   5 | 40<br>41         | Trucking and warehousing   | 27<br>27    | 1 1.0          | 8.4<br>3.0  | 3.9<br>3.1   | 4.5<br>8.2  | 4.5<br>3.4   | 4.4<br>8.8   | 44<br>38    | 4.5<br>3.8   | 5.4<br>4.8   | 5.7<br>4.7   | 69           | 9.1<br>8.0  | 6,8<br>5.0   | 6.6<br>5.1   |
| Transportation services   1.0   1.1   1.3   1.5   1.7   1.7   1.6   2.0   2.1   2.2   2.3   2.4   2.5    1.0   1.1   1.3   1.5   1.5   1.5   1.5   1.5   1.7   1.8   2.0   2.1   2.2   2.3   2.4    1.0   1.0   1.1   1.3   1.5   1.5   1.5   1.5   1.7   1.7   1.8   1.8   2.5   2.9   2.6    1.0   Transportation workstation breakmanting   5.5   5 | 42<br>43         | Trensportation by Air  |             | 7              | _B          |              | .9          | 1.0          | 13           | 1.8<br>8.5  | 3.7          | 17           | 2.0          | 22<br>42     | 1 28        | 81           | \$.6<br>4.6  |
| Bectric, gas, and sandtary services  | 41               | Transportation services  |             | 7.0            | [           | 1.3          | ᅜ           |              | Ī,f          | 1.7         | 1.6          |              | 2.1          | 22           |             | 24           | KP           |
| Bectric, gas, and sandtary services  | 46               | Communication  | 7.2<br>6.6  | 8.7<br>8.1     | 9.6<br>9.1  | 10.B<br>10.3 |             | 12.9<br>12.2 | 16.0<br>18.8 | LE 8<br>142 | 16.5<br>15.7 | 17.8         |              | 21.4<br>20.8 | 21.8        | 24.9<br>28.5 | 26.4<br>24.9 |
| ## Property of the part of the | 47               | =  |             |                |             | .6           | .6          |              | ,τ           | l .         | ₿            | .9           |              |              |             |              |              |
| ## Property of the part of the | 48 (             | Electric, gas, and sendary services  | 15.6<br>9.2 | 10.9           | 127         | 24.4<br>16.2 | 1T.4        | 19.7         | 92.4         | 24.7        | 27,7         | 88.2<br>39.1 | 85.7         | 28.6         | 40.8        | 422          | 42.6         |
| ## Property of the part of the | 50<br>51         | Gas services   | 6.0<br>1.3  | 5.9<br>1.3     | 6.7<br>1.3  | 7.3          | 8.9<br>1.5  | 썒            | 10.7<br>1.5  |             | 125          | 144          | 15.8         | 163<br>1.6   | 18.0        | 18.5<br>1.0  | 18.8         |
| Pleaner, insurance, and real estate  | 52               |  |             |                |             |              |             |              |              | 8,6         | £2           | 4.8          | 7.2          | i I          | 7.9         | E.3          | 8.8          |
| Services    | 53               | Betall trade.  | 8.1         | 10.2           | 10,6        | 121          | 13.1        | 12.1         | <b>68.7</b>  | 14.1        | 15.5         | 16.9         | 17,5         | 10.1         | [9.]        | 19.7         | 28.6         |
| 62 Services  | 54               | Pleaner, insurance, and real estate-   | 19.3        | 20.6           | <b>11.1</b> | 24.6         |             | 19.0         | 30.6         | 32.6        | 37.4         | 43.8         | 444          | 46.5         |             | 52.6         | 56.4         |
| 62 Services  | 65               | Rentring   | 1,5         | 1.9            | 1.7         | 1.5          | 2.0         | 2.0          | 21           | 22          | 2.0          | 2.9          | 3.2          | 8.4          | 82          | 89           | 42           |
| 62 Services  | 67<br>67         | Security, tumenedity broken and services   | 1           | - 3            |             | ] ]          |             | 11           | 1.2          | .ļ          | 1.3          | 1.8          | [4]          | 2.5          | 22          | 22           | . 2          |
| 62 Services  | 88<br>89         | Insurance carriers   | 4           | 1 1 1 2        | 4           | 3            | .6          | .7           | .7           | .8          | ,≥           | .4           | , ,          | 1.2<br>Ā     | 12          | .7           | 1.5          |
| 62 Services 7.2 2.0 8.3 2.6 10.9 11.5 12.9 13.9 15.9 18.1 19.9 21.1 33.0 24.7 25.5 63 Holeis and other lodging places 8.2 2.3 2.2 2.4 2.4 2.4 2.5 2.5 2.7 2.9 3.1 3.4 3.8 4.8 4.8 64 Personal services 7.7 8 8 8 9 1.0 1.1 1.2 1.3 1.5 1.6 1.7 1.9 2.0 2.1 2.3 66 Desiness services 8.7 8 1.0 1.2 1.4 1.5 1.7 2.0 2.3 2.6 2.8 3.0 3.1 3.3 4.6 67 Material services 8.7 8 1.0 1.2 1.4 1.5 1.9 2.8 2.8 2.8 2.8 2.8 4.6 67 Material services 9.3 3 3 3 3 3 4 5 5 5 5 6 4 6 68 Material services 9.3 3 3 3 3 3 4 5 5 5 5 6 4 6 68 Anneament and reducation services 1.3 1.5 1.5 1.6 1.7 1.9 1.9 2.0 2.1 2.2 2.4 2.6 2.6 2.8 2.9 3.1 7.7 4.0 0.5 2.5 2.7 3.0 3.9 3.8 4.2 4.4 4.5 5 5 5 5 6 4 6.6 7.7 7.7 1.9 1.1 1.2 1.2 1.2 1.2 2.2 2.4 2.6 2.6 2.8 2.9 3.1 7.0 0.5 2.5 2.7 3.0 3.9 3.8 4.5 5.0 6.5 6.1 2.5 2.7 2.5 2.7 3.0 3.9 3.8 4.5 5.0 6.5 6.5 2.5 2.5 2.5 2.5 2.7 3.0 3.9 3.8 4.5 5.0 6.5 6.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2  | 60<br>61         | the transmission of the second   |             | 17.3           | 17.6<br>2   | 20.6         | 23.4<br>.3  | 24.5<br>.3   | 25.8         | 27.6        | 81.3<br>.3   | 25.8<br>.3   |              | <b>20.2</b>  | 42.5        |              | 47.3         |
| 63 Matter privates 3 3 3 3 3 3 4 5 5 5 5 5 6 4 6 7 7 6 8 8 8 9 9 9 9 11 13 15 17 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10   | 62               | · · · · · · · · · · · · · · · · · · ·  | 7,2         | ľ              |             | ı            | l 1         | !            | 123          | 13.5        | 15.9         | 18.1         | 15.5         | 21.1         | 23.0        | 24.7         | 28.5         |
| 63 Matter privates 3 3 3 3 3 3 4 5 5 5 5 5 6 4 6 7 7 6 8 8 8 9 9 9 9 11 13 15 17 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10   | 63               | Hotels and other lodging places  | 8.2         | 2.5            |             |              | 24          | 34           | 2.5          | 26          | 2.7          | 29           | 3,3          | 3.4          | 9.5         | 4.5          | 4.9          |
| 63 Matter privates 3 3 3 3 3 3 4 5 5 5 5 5 6 4 6 7 7 6 8 8 8 9 9 9 9 11 13 15 17 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10   | 떯                | DESIGNATION OF LAND COMMISSION OF THE PROPERTY | .7<br>.7    | 8              | , B         | 10           | 1.0         | 13           | 1.2          | 13          | \$Q .        | 24           | 8.0          | 2.8          | 8.0         | \$.1<br>\$.1 | 23           |
| 75 Residential 189.1 \$11.0 212.1 244.4 247.5 282.4 290.6 316.1 333.5 353.4 265.4 388.3 387.3 472.5 425.3 78 Farms 18.7 14.8 14.7 16.1 16.5 17.1 17.1 17.2 17.4 17.5 17.3 17.1 27.0 16.5 16.7  | 66<br>67         | Minimilandous regain services  | ,8<br>,1    | .7<br>9        | .8          | 1.0          | L.2<br>.2   | 넇            | 19           | 28          | 2.8          | 13<br>5      | 3.7          | 8.9<br>.5    | 1.2<br>.8   | 4.4          | 4.8          |
| 75 Residential 189.1 \$11.0 212.1 244.4 247.5 282.4 290.6 316.1 333.5 353.4 265.4 388.3 387.3 472.5 425.3 78 Farms 18.7 14.8 14.7 16.1 16.5 17.1 17.1 17.2 17.4 17.5 17.3 17.1 27.0 16.5 16.7  | 68               | Andrewest and remailing services   | 1.5         | 15             | 1.5         | 1.7          | 1.9         | <u>(4)</u>   | 20           | 21          | 22<br>22     | .5<br>2.4    | 2.6          | £6           | 28          | 2.9          | ai           |
| 75 Residential 189.1 \$11.0 212.1 244.4 247.5 282.4 290.6 316.1 333.5 353.4 265.4 388.3 387.3 472.5 425.3 78 Farms 18.7 14.8 14.7 16.1 16.5 17.1 17.1 17.2 17.4 17.5 17.3 17.1 27.0 16.5 16.7  | 70<br>71         | Other services   | 1.5<br>.6   | 1.5            | 1.7         | 21<br>.9     | 25<br>1.1   | 27           | 80           | 3.9<br>1.5  | 1.8<br>1.7   | 44<br>21     | 50 j         | 8.6<br>2.1   | 8.0         | 8.5          | 7.0<br>8.4   |
| 75 Residential 189.1 \$11.0 212.1 244.4 247.5 282.4 290.6 316.1 333.5 353.4 265.4 388.3 387.3 472.5 425.3 78 Farms 18.7 14.8 14.7 16.1 16.5 17.1 17.1 17.2 17.4 17.5 17.3 17.1 27.0 16.5 16.7  | 72               | Legal services   | اق          |                | ' A 1       | 4            | 4           |              | 5            | Ď           | .6           |              | 3            | Ä            | .8          |              | . i          |
| 78 Ferms 18.7 14.8 14.7 16.1 16.9 17.1 17.2 17.4 17.8 17.3 17.1 27.0 16.5 16.7   |                  | VCR07  | - 3         | .4             | 8           |              |             |              | - 1          | ٠           | 1.1          | 1.9          | 1.5          | - 1          |             |              |              |
| 77 Real estate 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5   | · I              |  |             |                |             |              |             |              | ľ            |             |              |              | I            |              | · 1         | . 4          | l l          |
|  | <u>유</u>         | Res) telete  | 175.3       | 196.1          | 198.4       | 228.4        | 251.0       | 285.3        |              |             |              | 335.8        | <b>848.0</b> | \$68,1       | 386.3       |              | 400.9        |

<sup>1.</sup> Entireptes are as of the end of the year. 2. Consider of social services, membership organizations, and miscellaments professional services.

Nonregidential and Residential, by Industry, 1947-81  $^{\circ}$ 

of dollars)

| 1968   | 1968  | 1964   | 1945  | 1964   | 1967   | 1968  | 1989   | 1970   | 1971  | 1972  | 1977  | 1974  | 1976  | 1976   | 1917   | 1978   | 1979   | 1980   | 198L  | Line   |
|--|---|--|---|--|--|---|--|--|---|---|---|---|---|--|--|--|--|--|---|--|
| 873.4  | 1422  | 958.6  | 1,021.4   | 1,635.4  | 1,195.3  | 1.324.4   | 1,466.3  | 2,507.4  | 1,742.8   | 1,925.4   | 2,212.6   | 2,619.7   | 2,844.4   | 3,112.6  | 2,535.9  | 4.118.2  | 4.662.4  | 6.202.0  | \$,725.6  | 1  |
| 451.2  | 164L5   | 417.2  | 617.5   | 513.0  | 625.8  | 688.3   | П4.8   | 858.4  | 940.8   | 1.010.0   | 2,249.5   | 1,482.0   | 1,646.6   | 1,650,9  | 1,851.7  | 2,161.7  | 2,405.3  | 2,786.4  | 3,034.7   | 2  |
| 36.5   | 31.6  | 35.0   | \$5.8   | #8.2   | 41.2   | 44.2  | 48.8   | 62.8   | \$6.2   | 61.0  | 44.1  | 86.9  | M.9   | 165.1  | 1194   | 186.4  | 1012   | 180.7  | 193.3   | 3  |
| 28.7<br>1.8  | 29.8  | 31.0<br>2.0  | 38.2<br>2.1   | \$5.9<br>2.3   | 39.8<br>2.4  | 41.8<br>£7  | 45.9   | 49.3<br>8.5  | 52.4<br>3.8   | 56.9<br>4.1   | 84.7  | 81.5  | 89.1<br>8.8   | 98.4<br>6.7  | 111.8  | 129.4<br>9.0   | 180.4<br>10.8  | 168.2<br>12.6  | 179.4<br>18.9   | \$   |
| 29.0   | 29.3  | 30.7   | 32.9  | 25.0   | \$7.7  | 1.00  | 13.4   | 46.Z   | 48.4  | 61.7  | 67.3  | 76.1  | 69.4  | 84.8   | 111.9  | £34.\$   | 167.5  | 4,961  | 254.6   | . 8  |
| 30<br>13<br>246<br>12  | 21<br>14<br>244<br>18   | 2.3<br>1.5<br>25.5<br>1.5  | 25<br>15<br>27.2<br>1.7   | 28<br>16<br>29.5<br>20   | 3.1<br>J.8<br>80.5<br>22   | 84<br>20<br>822<br>25   | 2.5<br>2.7<br>84.5<br>2.7  | 4.3<br>2.6<br>84.4<br>2.9  | 4.6<br>3.1<br>87.7<br>8.1   | 45<br>35<br>39.9<br>8.1   | 5.6<br>4.1<br>41.8<br>41.8<br>5.7                                 | 7.1<br>5.5<br>69.1<br>4.6   | 7.7<br>68<br>64.2<br>6.1  | 8.4<br>7.4<br>72.7<br>5.6  | 9.7<br>9.7<br>86.1<br>6.4  | 11.5<br>11.8<br>163.7<br>7.2   | 14.1<br>14.1<br>104.8<br>8.4   | 16.8<br>16.5<br>151.3<br>9.8   | 19.0<br>19.0<br>205.€<br>11.2   | 2<br>8<br>10   |
| 7.8  | 8.5   | 9.3  | 14.2  | 11.2   | 12.0   | L2.9  | 14.6   | 16.2   | 17.4  | 18.5  | 21.4  | 24.5  | \$1.4   | 23.4   | \$7.6  | 44.7   | 49.5   | 55.3   | 2.62  | 11   |
| 1941   | 1.401   | 109.3  | 1194  | 136.7  | 16Fè   | 167.5   | 166.3  | 266.7  | 219.4   | 233.R   | 354.8   | 323.1   | 352,7   | 389.2  | 429.0  | 481.8  | 550.5  | 627.1  | GRES.   | 12;  |
| 586<br>23<br>19<br>158<br>79<br>146<br>64<br>14                    | 55.6<br>2.4<br>5.0<br>15.8<br>5.8<br>4.9<br>6.7<br>1.4<br>1.4 | 592<br>25<br>62<br>167<br>63<br>87<br>63<br>78<br>39<br>15   | 558<br>577<br>1855<br>986<br>822<br>177<br>1.2                      | 75.0<br>3.1<br>1.0<br>28.5<br>7.9<br>11.1<br>7.8<br>9.4<br>5.1<br>2.0        | 86.0<br>3.3<br>15.7<br>21.8<br>3.9<br>12.8<br>6.4<br>10.2<br>1.5     | 93.1<br>26<br>13.2<br>25.4<br>9.9<br>14.2<br>9.6<br>11.0<br>6.7<br>1.8                    | 1945<br>41<br>15<br>80<br>280<br>280<br>11.3<br>11.8<br>11.0<br>12.2<br>7.7<br>3.1 | 1144<br>45<br>186<br>384<br>124<br>178<br>124<br>135<br>88<br>36 | 120 B<br>4 9<br>1 7<br>9 1<br>13 1<br>14 1<br>15 3<br>14 4<br>8 6<br>3 9<br>2 2 | 188.1<br>5.5<br>2.0<br>9.8<br>32.7<br>19.9<br>19.8<br>14.2<br>9.0<br>4.1<br>2.4 | 141.4<br>8.2<br>2.3<br>15.1<br>15.6<br>21.2<br>18.3<br>4.7<br>2.7 | 175.0<br>8.1<br>2.0<br>19.8<br>48.0<br>19.3<br>26.6<br>90.4<br>19.7<br>10.7<br>6.0<br>8.8 | 191.8<br>8.8<br>3.0<br>16.1<br>48.0<br>21.4<br>29.6<br>22.1<br>30.8<br>12.7<br>6.4<br>8.5 | 904.1<br>9.5<br>3.1<br>16.0<br>51.6<br>29.1<br>31.8<br>23.8<br>21.8<br>19.5<br>6.8 | 229.9<br>10.9<br>3.5<br>19.0<br>56.9<br>26.4<br>86.1<br>24.6<br>14.9<br>14.9 | 280.6<br>12.5<br>4.1<br>20.6<br>62.4<br>80.0<br>42.1<br>80.2<br>27.0<br>17.0<br>8.8<br>5.0 | 299.3<br>14.3<br>4.6<br>26.5<br>49.4<br>49.7<br>10.8<br>10.8<br>5.7              | 343.6<br>18.0<br>52.2<br>26.6<br>77.4<br>87.8<br>42.5<br>27.8<br>11.8<br>6.4 | 283.2<br>16.8<br>55.7<br>84.9<br>48.9<br>48.9<br>48.9<br>48.9<br>48.9<br>48.9<br>48.9 | 18<br>16<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23   |
| 455<br>183<br>32<br>.7<br>63<br>30<br>113<br>75<br>22              | 87.5<br>11.4<br>3.3<br>5.6<br>3.2<br>11.8<br>7.3<br>2.8<br>3  | \$1995<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094<br>\$1094 | 126<br>28<br>10<br>766<br>149<br>79<br>44                           | 61.7<br>13.5<br>14.5<br>14.5<br>14.5<br>16.6<br>16.6<br>16.6<br>16.6<br>16.6 | 97.9<br>14.9<br>14.9<br>14.9<br>18.1<br>18.1<br>18.1<br>18.1<br>18.1 | 74.7<br>16.0<br>5.5<br>15.4<br>10.1<br>10.1<br>10.1<br>10.1<br>10.1<br>10.1<br>10.1<br>10 | 63.7<br>17.6<br>6.2<br>1.3<br>11.5<br>6.9<br>22.7<br>11.5<br>6.2                   | 92.1<br>19.2<br>6.7<br>20.5<br>18.6<br>25.2<br>12.8<br>5.8       | 28.8<br>20.5<br>9<br>7.3<br>2.2<br>13.0<br>7.1<br>27.1<br>13.9<br>6.2           | 105.7<br>22.1<br>1.0<br>8.0<br>2.5<br>12.8<br>28.8<br>14.8<br>5.7               | 117.8<br>24.8<br>1.2<br>8.0<br>2.8<br>14.8<br>81.5<br>15.3<br>7.9 | 146.1<br>29.7<br>1.5<br>11.1<br>3.5<br>18.4<br>10.7<br>40.0<br>20.3<br>10.1               | 161.4<br>82.4<br>1.6<br>91.8<br>2.7<br>21.0<br>11.9<br>45.7<br>22.1<br>10.8               | 176.1<br>36.1<br>1.7<br>12.4<br>23.2<br>11.5<br>51.1<br>24.3<br>11.5               | 198.2<br>49.8<br>1.9<br>13.6<br>4.4<br>26.1<br>12.5<br>56.8<br>26.9<br>13.1  | 228.2<br>44.4<br>23<br>14.9<br>29.6<br>15.5<br>65.7<br>29.9<br>14.5<br>14.5                | 251.7<br>49.9<br>2.8<br>18.1<br>5.4<br>33.8<br>17.8<br>17.8<br>17.1<br>1.3       | 283.6<br>66.0<br>17.5<br>6.9<br>20.9<br>20.9<br>82.5<br>38.8<br>19.0         | 309.4<br>80.4<br>8.8<br>18.4<br>6.8<br>43.1<br>22.3<br>89.7<br>48.5<br>20.4           | 25<br>22<br>22<br>22<br>23<br>24<br>24<br>25<br>24<br>25<br>25<br>25<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>26 |
| 144  | 148.1   | 158.6  | 162.4   | 174.5  | 138.3  | 297.1   | 288.2  | 254.8  | 379.7   | 302.2   | 243.5   | 419.6   | 499.7   | 513-8  | 561.7  | 633.5  | 688.4  | 756.0  | 866.0   | 86   |
| 51.8<br>28.9<br>2.2<br>1.8<br>5.2<br>4.1<br>4.0<br>2.5             | 51.2<br>85.9<br>22<br>7.2<br>52<br>4.0<br>8.9                 | 350753433<br>350753433   | 839<br>28.1<br>22<br>7.9<br>5.5<br>5.0<br>4.1<br>8.2                | \$7.0<br>25.8<br>2.0<br>8.1<br>5.7<br>6.0<br>4.1<br>8.8                      | 29.5<br>27.1<br>2.2<br>8.5<br>6.0<br>7.5<br>4.4<br>4.3               | 845<br>847<br>848<br>848<br>848<br>848<br>848   | 70.8<br>29.2<br>2.2<br>10.8<br>7.0<br>11.2<br>4.9<br>5.6                           | 76.2<br>90.6<br>2.3<br>11.4<br>8.0<br>12.4<br>6.2<br>6.2         | 80.3<br>81.8<br>2.3<br>12.4<br>8.5<br>12.7<br>5.8<br>6.7                        | 84.9<br>32.7<br>2.5<br>13.7<br>9.5<br>18.3<br>5.1<br>7.3                        | 94.1<br>35.0<br>2.4<br>16.5<br>11.0<br>14.7<br>6.7                | 115.5<br>43.1<br>2.7<br>20.5<br>18.7<br>16.4<br>8.9<br>10.2                               | 127.7<br>47.8<br>8.0<br>21.8<br>15.3<br>17.0<br>11.4<br>12.0                              | 138.1<br>48.6<br>3.1<br>24.6<br>17.0<br>18.0<br>14.2<br>12.6                       | 151.1<br>57.6<br>3.4<br>22.8<br>13.9<br>28.7<br>16.0<br>18.3                 | 169.8<br>59.2<br>3.7<br>48.8<br>21.5<br>19.5<br>17.5                                       | 194.4<br>66.9<br>4.0<br>89.7<br>25.5<br>23.4<br>19.0<br>16.5                     | 219.2<br>78.7<br>4.4<br>45.8<br>29.4<br>26.7<br>20.8<br>18.8                 | 233.6<br>15.6<br>4.8<br>48.3<br>33.4<br>30.3<br>21.9<br>19.5                          | 37<br>38<br>40<br>41<br>42<br>48   |
| 28.2<br>26.5<br>7.6  | 35.7<br>27.9<br>1.8   | 38.7<br>30.8<br>1.9  | #5.9<br>#3.7<br>2.1   | 89.9<br>37.6<br>2.4  | 44.0<br>41.3<br>2.7  | 49.8<br>46.7<br>8.0   | 55.8<br>52.3<br>3.4  | 85.1<br>61.8<br>8.8  | 73.7<br>63.5<br>4.2   | 81.1<br>78.6<br>4.5   | 91.4<br>86.4<br>5.1   | 107.3<br>101.2<br>4.1   | 124.8<br>118.1<br>6.7   | 130.9<br>123.8<br>7.1  | 142.5<br>134.8<br>7.8  | 168.5<br>149.7<br>8.8  | 180.2<br>170.2<br>10.0   | 296.5<br>195.1<br>1).4   | 235.1<br>227.1<br>12.0  | 45<br>49<br>47   |
| 64.9<br>48.9<br>19.)<br>1.8  | 65.2<br>46.7<br>18.6<br>1.9                                   | 68.9<br>47.9<br>18.8<br>1.9  | 72.7<br>96.5<br>20.2<br>2.9   | 78.0<br>54.8<br>21.6<br>2.2  | 85.0<br>60.1<br>22.7<br>2.2  | 92.9<br>68.9<br>24.6<br>24.6  | 102.1<br>18.2<br>28.5<br>2.7   | 118.6<br>82.0<br>28.4<br>3.1                                     | 125.7<br>91.9<br>38.5<br>34   | 196.2<br>109.4<br>82.2<br>3.7   | 157.9<br>117.6<br>86.2<br>4.2                                     | 196.9<br>146.2<br>45.3<br>5.2   | 227.1<br>171.5<br>60.1<br>5.5   | 243.2<br>186.2<br>51.2<br>5.7  | 263.0<br>297.1<br>54.6<br>6.4  | 295.3<br>228.6<br>59.5<br>7.2  | 317.7<br>244.8<br>64.7<br>8.2  | 850.4<br>280.1<br>71.4<br>8.9  | 857.8<br>310.8<br>77.3<br>9.1   | 48<br>49<br>50<br>51   |
| 5.6  | 10.1  | 12.1   | 12.7  | 13.8   | 17.4   | 19.4  | 22.6   | 24.4   | 27.8  | 30.8  | 36.5  | 45.0  | 49.0  | 43.6   | 61.5   | 71.2   | 62.0   | 923  | 144.8   | 58   |
| 31.7<br>68.7   | 23.1<br>45.4  | 70.6   | 27.3<br>78.3  | 54.6<br>87.6   | 23.7<br>N.a  | 57.6<br>197.4   | 42.1<br>125.9  | 17.5<br>141.5  | 51.9<br>156.3   | 67.1<br>173.4   | 96.4<br>201.3   | 82.9<br>246.8   | 88.9<br>252.6   | 9L6<br>268.4   | 104.5<br>291.9   | 12L9<br>3#4.5  | 142.5<br>386.3   | 1520<br>4369   | 175.4<br>485.8  | 53<br>84   |
| 4.7<br>2.4<br>2.2<br>1.4<br>7.7<br>50.8                            | 50<br>26<br>3<br>16<br>-7<br>544                              | 5.6<br>2.0<br>1.8<br>5.7<br>68.7   | 6.8<br>3.5<br>8<br>2.0<br>.8<br>64.7                                | 7.2<br>4.9<br>.4<br>2.3<br>.8<br>.72.1                                       | 7.5<br>4.6<br>4.6<br>2.6<br>79.9                                     | 91<br>5.6<br>29<br>87.1   | 10.8<br>6.8<br>.6<br>3.4<br>1.0<br>102.0   | 12.2<br>7.8<br>.7<br>8.8<br>1.1<br>114.4                         | 18.6<br>9.0<br>.8<br>4.1<br>1.2<br>125.9  | 15.5<br>10.1<br>.8<br>4.5<br>1.2<br>139.8                                       | 18.6<br>12.1<br>5<br>5.1<br>1.6<br>161.2<br>2.4                   | 12.7<br>16.1<br>1.1<br>6.2<br>1.9<br>196.1<br>2.9   | 24.2<br>16.7<br>1.2<br>0.4<br>1.7<br>197.4<br>3.1   | 26.2<br>21.7<br>1.9<br>6.7<br>1.8<br>202.7<br>3.2                                  | 29.5<br>25.6<br>1.4<br>7.5<br>20<br>232.4<br>8.6                             | 34.8<br>29.4<br>1.5<br>8.6<br>23<br>282.9<br>4.1   | 41.6<br>88.5<br>1.7<br>9.8<br>2.6<br>291.7                                       | 48.6<br>49.1<br>11.0<br>28<br>328.7<br>6.0                                   | 54.2<br>42.1<br>3.0<br>11.8<br>2.9<br>361.9<br>6.8                                    | 57<br>58<br>59<br>60<br>61   |
| 28.6   | 33.3  | 34.L   | 37.6  | 43.4   | 46.9   | 52.5  | 59.0   | 66.0   | 72.4  | 61.6  | 94,6  | 114.2   | 115.4   | 125,2  | 127.2  | 1\$2L\$  | 178.6  | 208.5  | 123.5   | 62   |
| 5,8<br>2,4<br>1,5<br>4,9<br>7,8<br>3,2<br>7,8<br>1,0<br>1,4<br>2,6 | 6000 M 8000 M 1000  | 5.8<br>4.3<br>5.4<br>.8<br>.8<br>.9<br>.9<br>.9<br>.9<br>.7<br>1.0   | 7.5<br>5.0<br>5.0<br>8.0<br>8.0<br>1.0<br>10.1<br>5.3<br>1.1<br>8.4 | 844<br>600<br>7.09<br>1.12<br>11.60<br>1.25<br>3.7                           | 9.1<br>3.6<br>7.4<br>1.2<br>4.5<br>6.6<br>1.3<br>4.1                 | 10.1<br>29<br>9.1<br>8.1<br>1.4<br>4.7<br>18.9<br>7.3<br>1.4<br>.7<br>4.5                 | 1.2<br>4.3<br>1.0<br>9.2<br>1.5<br>1.5<br>1.5<br>8.6<br>1.5<br>7<br>5.8            | 12.5<br>4.7<br>12.8<br>10.0<br>1.5<br>1.7<br>18.1<br>18.1<br>1.6 | 18.9<br>5.0<br>14.8<br>19.5<br>1.7<br>1.9<br>5.2<br>19.7<br>10.7<br>1.7<br>6.6  | 15.5<br>16.5<br>11.6<br>11.9<br>21.9<br>7<br>11.9<br>7                          | 18.0<br>19.5<br>19.5<br>19.2<br>9.4<br>7.5<br>25.6<br>19.5<br>9.9 | 22.1<br>7.8<br>22.4<br>16.2<br>27<br>28<br>81.7<br>16.5<br>19.9                           | 22 27 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8   | 29.6<br>24.1<br>19.2<br>33.9<br>10.0<br>25.0<br>18.4<br>2.6<br>9                   | 24.0<br>8.9<br>25.3<br>22.0<br>3.9<br>10.8<br>2.5<br>10.8<br>15.0            | 27.0<br>9.5<br>27.4<br>25.1<br>4.9<br>11.7<br>44.5<br>23.0<br>3.1<br>1.1                   | 22.2<br>14.8<br>22.7<br>4.9<br>4.6<br>12.9<br>54.5<br>24.1<br>3.3<br>1.1<br>20.0 | 35B<br>117<br>887<br>826<br>66<br>51<br>142<br>57.1<br>297<br>287<br>287     | 39.7<br>12.5<br>45.0<br>39.8<br>5.4<br>15.4<br>69.5<br>33.7<br>1.2<br>24.9            | 68<br>64<br>65<br>68<br>67<br>68<br>69<br>70<br>71<br>72<br>79   |
| 1616<br>281  | 451.8   | 483.8  | 1462<br>146   | 542.4<br>17.1  | 17.4   | 635.1   | 691.5  | 739.6  | 512.0 .<br>91.9   | 914.6<br>99.6   | 1,084.0<br>96.0   | 1,187.f<br>91.7   | 1,531L8   | 1,453L0  <br>91.0  | 2.283,1<br>6.32  | 2,849.5  | 2,258.1<br>48.9  | 2,471.6  | 2,660.6   | 75<br>2e   |
| 16.5<br>425.3  | 16.1<br>435.5   | 16.4<br>464.9  | 16.5<br>487.7   | 17.1<br>525.8  | 17.4<br>562.1  | 18.7<br>616.4   | 19.4<br>671.5  | 20.2<br>718.9  | 21.2<br>781.8   | 22.6<br>292.0   | 26.6<br>1.089.1   | 27.7<br>1,170.0   | 29.2<br>2,262.6   | 31.9<br>1,422.0  | 35.9<br>1,646.8  | 41.8<br>1,367.7  | 45.2<br>2.204.8  | 48.6<br>2,423.1  | 51.2<br>2,639.7   | 76<br>11   |

Table 3.—Constant-Dollar Gross Stock of Fixed Private Capital,

|  |  |                                    |  |   |   |                                       |  |  |   |                                    |  |                             |  |                                    | [8   | illims of   |
|--|--|------------------------------------|--|---|---|---------------------------------------|--|--|---|------------------------------------|--|-----------------------------|--|------------------------------------|--|---|
| Libe   |  | 1947                               | 1948   | 1349  | 1960                                      | 1961                                  | 1952   | 1953   | 1954  | 1965                               | 1956   | 1957                        | 1958                                     | 1949                               | 1964   | 1951  |
| 1  | Pixed private capital  | 1,201.2                            | 1,856.0  | 1.373.3   | 1.423.9                                   | £420.2                                | 1,516.9  | 1,561.8  | 1,618.0                                       | 1,871.0                            | 1,727.5  | 1,782.4                     | 1,831.8                                  | 1,888.2                            | 1,943.5  | 1,997.4   |
| 3  | Neuroidestial  |                                    | 792.2  | 720,9   | 742.0                                     | 748.4                                 | 799.2  | 820,4  | . \$45.6                                      | 874.5                              | 905.B  | 997.3                       | 963.4                                    | 186.2                              | 1,0144   | 1,842.9   |
| 3  | Apricolture, forestry, and fisheries   | . <b>5</b> Σ.4                     | 15.5   | \$92.5  | 62.4                                      | #13                                   | 433  | 72.4   | 74.6  | 76.3                               | 17.2   | 27.3                        | · TBA                                    | 79.7                               | \$30.0   | 94.5  |
| 1  | Partos   | 40.0                               | 53.0<br>2.5                                    | 56.8<br>2.1   | 80.6<br>2.8                               | 63.9                                  | 66.8<br>3-1  | 69.2<br>3.2                                      | 0.17<br>8.8                                   | 73.7<br>.8.4                       | 73.5<br>8.7  | 78.8<br>3.9                 | 144<br>48                                | 75.5                               | 76.7   | 76.0<br>7.5   |
| 6  | Mining   |                                    | 49.3   | 41.6  | 43.2                                      | 46.0                                  | 47.5   | 50.4   | 53.4  | 64.8                               | .69.2  | 61.5                        | #41                                      | 68.6                               | 71.3   | TAL   |
| 7  | Metal exterior   | 9.6                                | 8.8  | 3.7   | 47  | 3.8                                   | 319  | 40   | 41<br>88                                      | 4.2<br>3.7                         | 1.4  | 4.5                         | 4.5                                      | 4.5<br>3.4                         | 4.B  | 5.0   |
| 9<br>9<br>10   | Coef mining Oil and gas extraction Nonsestallic minerals, except finals  | 28.7<br>2.1                        | 29.9<br>2.2                                    | 21.5<br>2.3   | 329<br>24                                 | 34.6<br>2.5                           | 87.0<br>26   | 3.9<br>39.8<br>2.7                               | 43.8<br>2.7                                   | 45.2<br>2.7                        | 3.0<br>49.5  | 3.5<br>52.7<br>2.9          | 3.4<br>65.3<br>2.6                       | 58,0<br>2,8                        | 80.4<br>28   | 62.8<br>2.8   |
| 11   | Construction   |                                    | 12.1   | u.i   | 14.9                                      | 16.7.                                 | 15.8   | 17.7   | 18.3  | 19.3                               | 19.3   | 19.6                        | 19.7                                     | 19.8                               | 20.0   | 19,5  |
| 12   | Monufacturing  | ı                                  | 150.5  | 164,3   | 168.7                                     | 176.1                                 | 153.9  | 190.9  | 197.6   | 203.0                              | 213.6  | 223.1                       | 227.5                                    | 231.0                              | 237.9  | 242.6   |
| 18   | Durable goods Lember and wood products   | ľ                                  | 78.7   | ·75.0   | 17.0                                      | -81.4                                 | 85.4   | 90.7   | 24.7  | 99.6                               | 105.7  | 1101                        | 115.2                                    | 117.9                              | 1221   | 125.4   |
| 14<br>15   | Fernikire and lictores   | 1.6                                | 8.8<br>1.5                                     | 1.0<br>1.8  | 1.6                                       | 1.6                                   | 1.7  | 4.8<br>1.7                                       | 5.0<br>1.7                                    | 3.3<br>1.7                         | 6.6<br>1.7   | 1.8<br>10.7                 | 6.7<br>1.8                               | 5.9<br>1.8                         | 6.1<br>1.8   | 61<br>18<br>119<br>363<br>127<br>186                |
| 16<br>17<br>18<br>19<br>20<br>21<br>22<br>24                       | Stone, clay, and glass products  Primary metal industries  | 8.9<br>21.9<br>5.5                 | 81<br>22.6<br>6.7<br>10.1<br>5.5<br>7.6<br>4.8 | 18<br>8.1<br>22.6<br>7.0<br>14.5<br>7.9<br>4.3<br>1.5 | 82<br>22.7                                | 23.9                                  | 8.6<br>25.7<br>8.3<br>12.5<br>6.7<br>9.6<br>4.8    | 8.7<br>26.6<br>8.8<br>13.4<br>7.1<br>10.3<br>5.0 | 8.8<br>27.1                                   | 9.3<br>27.8<br>10.0                | 10.0   | 81.6                        | 10.9                                     | 11.2<br>38.1                       | 11.6<br>84.5<br>12.3<br>18.1<br>9.6<br>15.3<br>7.4<br>2.8<br>2.7 | 35.3  |
| 81<br>91   | Machinery, except electrical   | 3.4                                | 10.1   | 14.5  | 1111                                      | 23.9<br>7.8<br>11.7                   | 12.5   | 13.4   | 9.4<br>14.1<br>7.5<br>11.4<br>5.8<br>2.0      | 14.8                               | 29.4<br>16.9<br>16.7<br>8.3<br>19.3<br>6.2<br>2.5<br>2.6 | 11.2<br>18.8                | 11.6                                     | 11.9<br>17.5                       | 12.3<br>18.1   | 19.6  |
| 20<br>21   | Motor vehicles and applement   | [ §.2                              | 5.5<br>7.6                                     | · 57  | 6.9                                       | 5.9<br>8.9                            | 6.7<br>9.6   | 10.3   | 114   | 14.8<br>1.8<br>12.2<br>5.6         | 13.3   | 8.7<br>14.1                 | 189                                      | 9.2<br>14.5                        | 9.6  | 15A   |
| 252<br>253   | Other transportation equipment instruments and caleto products that translated products the billion of the bill | 48                                 | 4.8  | 4.3<br>1.5  | 6.9<br>8.3<br>4.2<br>1.6                  | 5.9<br>8.9<br>4.5<br>1.7              | 14   | 5.0<br>1.9                                       | 5.8<br>2.0                                    | 5.6<br>2.1                         | 62   | 6,5<br>2,4<br>2,6           | 17.1<br>8.9<br>16.6<br>7.0<br>2.5<br>2.5 | 9.2<br>14.5<br>7.2<br>2.8<br>2.7   | 7.4  | 177   |
|  | -  |                                    | 13   | ļ LB  | 14  | . 20                                  | 2.2  | 2.4  | 2.5   | 2.5                                | 1  | ,                           | 1  |                                    |  | 27  |
| 1157288883188348   | Neminrable gonde Food and kindred products Tobacco manufactures  | 82.6<br>27.4                       | 868<br>282<br>1.0<br>11.9                      | 89.4<br>23.7  | 91.7<br>29.2                              | 94.7<br>29.5                          | 29.5   | 100.2<br>29.5                                    | 192.8<br>29.6                                 | 184.8<br>29.7                      | 107.E<br>29.7  | 29.7                        | 1128<br>29.5                             | 118.8<br>29.7                      | 115.8<br>28.8<br>1.0   | 118.2<br>30.0                                       |
| . 27<br>28   | Tobacco menufactures   |                                    | 1.0  | 1.0<br>12.1   | 12.5                                      | 12.5                                  | 10.5   | ı 4.   | 12.1<br>1.6                                   | 12.0                               | 12.5   | 117                         | 1.0<br>11.3                              | 1 A                                | 1.0  | 1.0   |
| 99<br>30   | Apparel and other tertile products   | 1.6                                | 1.6  | 1.6   | 1.6                                       | 1.6                                   | 1.6  | 12.4<br>1.6<br>10.5                              | 11.6  | 1.8                                | 16   | 1.6                         | 1 16                                     | 1.77                               | 10.9<br>1.7<br>14.5  | 1.7   |
| 31   | Textile mill products  Apparel and other textile products  Paper and alied products  Pranting and publishing  Chenjouls and alied products  Petruberm and nail confects  | 10<br>112<br>16<br>81<br>42<br>153 | 1.6<br>8.6<br>4.5<br>18.8                      | 9.6<br>4.8<br>16.5                                    | 12.5<br>1.6<br>9.3<br>5.0<br>17.3<br>11.9 | 12.6<br>1.6<br>9.7<br>5.2<br>18.5     | 10.1<br>5.4<br>19.8<br>13.3                        | 5.5<br>20.9                                      | 5 B B   | 5.8<br>22.4                        | 12.4<br>6.1<br>28.3<br>16.9                              | 18.8<br>6.3<br>24.4<br>17.9 | 18.7<br>8.6<br>25.2<br>18.3              | 11.1<br>14.1<br>68<br>25.6<br>18.4 | 7.1  | 7.3   |
| 3 <b>3</b>   | Petrolectin and material products  | 10.2                               | 1111   | 31.6  | 1119                                      | 12.5                                  | 12.3   | 144  | 21.3  | 16.0                               | 160  | 17.3                        | 183                                      | 134                                | 26.3<br>18.8   | 27.4<br>19.1  |
| 35   | reather and desired broducts   | 27<br>I.1                          | 25   | 2.0<br>I.1  | 8.0<br>1.3                                | 1.0                                   | Lô   | 1 16   | 2.7<br>1.0                                    | 1.0                                | 11   | 1 13                        | 1.0                                      | 4.6                                | 4.8  | Bi<br>.9  |
| 36   | Transportation and public utilities  |                                    | 265.5  | 270.9   | 276.3                                     | 287.4                                 | 257.A  | 294.3  | 299.3   | 3 <b>N</b> .4                      | 332.0  | 820.2                       | 326.1                                    | 331.9                              | 339.4  | 396.2   |
| 87<br>88   | Transportation Restroad transportation Lood and interorban passager transit Tracking and waveledening Water transportation Transportation by air Proplines, arrapt instural gra Transportation services  | 165.5<br>113.9                     | 164.3<br>111.5                                 | 163.1<br>110.1  | 161.7                                     | 160.8<br>106.5                        | 169.9  | 186.9<br>103.5                                   | 186.8<br>101.3                                | 166.0                              | 154.2<br>97.4  | 161.8<br>96.8<br>10.2       | 150.9                                    | 149.B<br>91.6                      | 148.9<br>89.7<br>8.2   | 147.7<br>87.5                                       |
| 39   | Loud and interorban pessenger transit  | 14.5<br>8.9                        | 14.1<br>10.5                                   | 18.7  | 108.2<br>13.2<br>11.9                     | 12.7<br>12.7<br>12.1                  | 1 112.8  | 1119   | 12.4  | 90.1<br>11.0                       | Ĭ  | 102                         | 93.9<br>1.0                              | 1 86                               | 8.2<br>15.2  | 87.5<br>7.9<br>16.7                                 |
| 41   | Water transportation   | 12.7<br>2.2                        | 128  | 188   | 12.1                                      | 博                                     | 122  | 13.4<br>12.4<br>3.1<br>8.7                       | 18.6<br>18.3<br>8.5                           | 14.9<br>12.1<br>3.7                | 10.6<br>14.7<br>12.2<br>4.2                              | 161<br>125                  | 127                                      | 129                                | 18.0   | 130   |
| 888<br>844<br>844<br>844<br>844<br>844<br>844<br>844<br>844<br>844 | Pipelines, except netural gas  | , îi                               | 2.3<br>8.2                                     | 13.7<br>11.1<br>12.2<br>2.4<br>9.2<br>4.3             | 12.1<br>2.5<br>9.3<br>4.5                 | 2.6<br>0.3<br>4.8                     | 105.1<br>12.8<br>13.0<br>12.2<br>2.9<br>9.5<br>5.0 | 討  | 9.8   | 9.8<br>6.8                         | 9.8<br>5.3   | 4.8<br>9.7<br>5.3           | 15.9<br>12.7<br>5.1<br>5.7<br>6.3        | 15.7<br>12.9<br>6.0<br>9.6<br>5.4  | 15.2<br>18.0<br>5.0<br>9.5<br>5.5                                | 84<br>57  |
| 45   | Commission services  | 25.0                               | 4.1  | l .   | 1   | 1                                     | •  |  | 5.1   | i .                                | 46.4   | 48.6                        | 51.4                                     | 58.7                               | 57.3   | 681.9   |
| 48   | Communication Tel-phone and telegraph Radio and television progressing   | 23.6<br>1.4                        | 27.6<br>28.0<br>L8                             | 29.6<br>27.9<br>1.6                                   | \$1.4<br>29.7<br>1.7                      | 33.1<br>31.8<br>1.7                   | 35.1<br>33.4<br>1.0                                | 86.6<br>1.9                                      | 89.7<br>87.7<br>1.9                           | 42.1<br>40.1<br>2.0                | 48.3   | 46.3                        | 48.5<br>2.5                              | 51.1<br>25                         | 54.4   | 57.8<br>3.1   |
|  |  | 70.4                               | 73.9   | 78.5  | 83.0                                      | 87.0                                  | 92.3   | 97.9   |   | 107.3                              | 1124   | 117.8                       |  | 128.6                              | 188.2  | 137.6   |
| 48<br>49<br>50<br>51   | Stectric gas, and capitary proving   | 44.9<br>19.8                       | 47.7<br>20.2                                   | 51.0<br>21.3  | 54.2<br>22.9                              | 57.2<br>24.6                          | 60.8<br>25.7                                       | 64.8<br>27.2                                     | 102.7<br>68.7<br>28.2                         | 71.9                               | 75.5   | 79.4                        | 123.2<br>53.4<br>54.1<br>5.7             | 87.1<br>85.7<br>5.7                | 90.7<br>96.8   | 98.0<br>38.1<br>57                                  |
| šĭ   | Senitary services  | 6.1                                | 6.0  | 6.0   | 5.5                                       | 5.9                                   | 5.8  | 6.8  | 5.8   | 29.6<br>5.8                        | 8.8  | 82.7<br>5.7                 | 8.7                                      | 5.7                                | 3.7  | <b>1 6</b> 7  |
| 62   | Wholespie trade  | 16.7                               | 114  | 31-8  | 12.4                                      | €8.0                                  | LL.J   | 13.9   | 14.6  | 18.5                               | 16,2   | 17,0                        | L7.5                                     | 18.2                               | 19.2   | <b>#0.1</b>   |
| 53   | Retail trade   |                                    | 41.4   | 41.7  | 44.1                                      | 48.6                                  | 44.4   | 444  | 45.4  | 47.2                               | 48.0   | 46.6                        | 49.7                                     | 81.2                               | 52.7   | 34J   |
| 54   | Finance, institution, and real salute  | 82.6                               | 84.4   | 84.1  | 89.8                                      | 83.6                                  | 25,3   | 96.8   | 163.1   | 198.9                              | 136.2  | 119.3                       | 124.0                                    | 134.6                              | 136.8  | 148.0   |
| 55<br>58   | Reaking<br>Credit agencies other than beaks  | 6.9<br>2.9<br>.6                   | 69<br>29<br>.6<br>17                           | 6.7<br>2.8<br>.6                                      | 8.7<br>8.0<br>.8<br>L8                    | 8.7<br>8.0<br>1.9                     | 8.5<br>8.2<br>.6<br>1.9                            | 3.6<br>3.8<br>.6<br>2.0                          | 8.5<br>8.5<br>2.5                             | 9.1<br>8.8<br>.6                   | 9.8<br>3. <del>1</del>                                   | .6<br>41<br>.6              | 9.9<br>4.3<br>.6                         | 10.8<br>4.6                        | 10.7   | 12.1<br>5.0<br>.6<br>4.1                            |
| \$3<br>\$3   | complete continger.  | 1.6                                | 17   | 1.7   | L8  | ,6<br>1,9                             | 6<br>6.1   | .6<br>2.0  | 2.5   | 23                                 | 2.5  | 26                          | 2.7                                      | 2.6                                | 8.0  | 2.1   |
| 55<br>53<br>53<br>61   | lasswarte agenta, brokers, and services.   | 67.5                               | 89.1   | 70.9  | 76.2                                      | 8                                     | 79.5   | 9<br>82.6  | 88.5  | 91.5                               | 1.6<br>96.2  | 1.0<br>180.6                | 1.1<br>101.7                             | 1.2<br>110.2<br>.B                 | 116.4  | 121.8   |
| - 1  | Holding and other investment companies   |                                    | 5  | .6  | .7  | 77                                    | 7  |  |   |                                    |  | .5                          |  | 1                                  | .,,  | ا و   |
| - 62   | Bervice  | 30.6                               | 31.3   | \$1.7   | 32.9                                      | 34.0                                  | 35.5   | 37.4   | 39.4  | 42.4                               | 45.2   | 48.3                        | 50.8                                     | 64.0                               | 57.6   | 14.9  |
| 68<br>64   | Hotels and other lodging places  | 9.7<br>2.5                         | 9.6<br>2.6                                     | 9.4   | 9.2<br>2.9                                | 9,2<br>3.0                            | 9.0<br>1.1   | 8.9<br>3.4                                       | 8.9<br>8.6                                    | 89                                 | 9.0<br>4.0   | 43<br>83                    | 8.5<br>4.4                               | 9.9<br>4.7                         | 10.5<br>5.0  | 112<br>53   |
| 6\$<br>66  | Auto repair, services, and garages   | 2.5<br>3.3<br>1.5                  | 9.6<br>2.6<br>2.3<br>2.1                       | 8473227<br>24732<br>164736<br>16526                   | 9.3<br>2.5<br>2.4<br>4.2<br>6.6<br>8.2    | 3.0<br>5.7<br>2.7<br>.8<br>1.2<br>6.7 |  | 3.4<br>4.3<br>3.9<br>9                           | 8.9<br>8.5<br>4.7<br>4.5<br>1.0<br>1.4<br>7.2 | 89<br>86<br>52<br>55<br>1.1<br>1.4 | 4.0<br>5.7<br>6.2  | 43<br>70<br>12<br>15<br>76  | 4.4<br>9.8<br>1.8<br>1.6<br>7.7          | 71 1                               | 7.5<br>8.8   | 7.9   |
| 67<br>68   | Miscollaneous repair services  | - 14<br>14                         | . 19   | 12  | 1.2                                       |                                       | 4.0<br>3.2<br>4.8<br>6.9<br>7.8                    | 1.8  | 13  | 1.1                                | 1.1<br>1.6<br>7.8  | 12                          | 1.8                                      | 81<br>18<br>16<br>79               | 14   | 15  |
| ee<br>m  | Ambamment and recreation services  | 6.1<br>5.2                         | 63<br>55<br>22<br>14                           | 6.4   | 6.5<br>R *                                | 6.7<br>6.7                            | 6.9  | 7.1<br>7.1                                       | 12  | 9.4                                | 7.8<br>10.2  | 7.6<br>11.2                 | 7,7                                      | 7.9                                | 1.4<br>1.7<br>8.2<br>14.4  | 192   |
| ήĭ   | Health services  | 2.1                                | 22   | 23  | 24<br>1.5                                 | 2.9                                   | 8.1  | 3.4<br>1.7                                       | 8.4<br>3.7<br>1.7                             | 4.1<br>1.8                         | 47   | L 2                         | 12,3<br>5.8                              | 6.4                                | . 69   | 7.4   |
| 241112882888111112   | Legal services   | 1.6<br>.3                          | 1.5  | . L6  | 1.7                                       | 1.6<br>.4<br>1.8                      | 8.1<br>1.6<br>5<br>2.0                             | 1.7<br>.5<br>2.1                                 | 2. i  | 1.5<br>.6<br>2.6                   | 1.9<br>8.0   | 1.5<br>2.7<br>3.8           | 2.0 ·<br>8.7 ·                           | 2.1 ·<br>8<br>4.0                  | 22<br>.9<br>4.5  | 113<br>78<br>94<br>15<br>16<br>165<br>74<br>22<br>9 |
| 14<br>18   | Other *  | 1.4<br>619.4                       | 1,0<br><b>523</b> .8                           | , 602.8   | 1.7<br>680.0                              | 702.0                                 | 722.5  | 744.3  | 708.0 I                                       | 26<br>28 <b>6.</b> 5               | 857'3<br>8'0   | 8.5<br>846.2                | 672.3                                    | 4.0<br>901.9                       | 128.3  | 5.0<br>\$\$4.4                                      |
| 718  | Perms  | 52.9                               |  |   | ,   | 54.6                                  | •  |  | 64.5  | 1 1                                | 1 1  | 53.9                        | 58.6                                     | 63.4                               |  | 58.0  |
| 777  | Real estate  | 569.5                              | 55.4<br>580.4                                  | 6 <b>3.9</b><br>686.6                                 | 54.4<br>625.6                             | 647.5                                 | 54.6<br>568.2                                      | 54.6<br>689.7                                    | 7111.5  | 54.8<br>742.2                      | 54.1<br>767.8  | 791.5                       | 818.7                                    | 848.5                              | 53.1<br>875.2  | 901.4   |

<sup>1.</sup> Estimates are as of the end of the year.
2. Consists of social services, membership organizations, and miscellaneous professional services.

Nonresidential and Residential, by Industry, 1947-81 1

| 1982  | 1983   | 1944   | 1965   | 1986  | 1967  | 1968  | 1960  | 1970  | 1971   | 1972  | L978  | 1974   | 1976  | 1976  | 1977  | 1978  | 1579   | 1980   | 1981  | Line   |
|---|--|--|--|---|---|---|---|---|--|---|---|--|---|---|---|---|--|--|---|--|
| 2,958.4   | 2,125.9  | 2,241.3  | 2,299.2  | 2,36j.:t  | 2,465.6   | 2,565.4   | 2,667.8   | 2,702.5   | 2,844,4  | 2,983.5   | \$31£0  | 3,227.4  | 3,312,8   | 3,406.6   | 3,523,3   | 3,854.0   | 1,7929   | \$,912J  | 4,#350  | 1  |
| 1,074.9   | 1,109.2  | 1,150.2  | 1,205.4  | 1,291.2   | 1,327.9   | 1,390.5   | 1,459.8   | 1,528.8   | 1,582.8  | 1,650.3   | 1,722.9   | 1,510.2  | 1,667,2   | 1,926.8   | 1,995.3   | 2,6623  | Z,1728   | 2,258.8  | 1,3414  | 2  |
| \$1.3<br>76.7   | 77.8   | 78.9   | 86.1<br>Ba.5   | 88.2  | 91.7<br>88.1  | RRB   | 90.9  | 100.3   | 100.L  | 195.8   | 119.1   | 114.5  | 111.9   | 116.5   | 121.4   | 136.5   | 1821   | 185.1<br>186.1<br>10.0   | 167.5<br>187.1<br>10.4  | 4 5  |
| 74.5  | 4.7  | 5.0  | 52   | 83.3<br>5.4   | 88.1<br>6.5   | 88.5<br>5.6   | 8.0   | 6.5<br>P4.0   | 8.8  | 48.6<br>7.1   | 103.9   | 107.3  | 7,6   | 8.0   | 121.4<br>8.4<br>104.0   | 9.0   | 9.5  | 117.1  | 10.4  | . 6  |
|   | 79.0<br>6.3<br>8.7   | 82.0<br>5.4  | 5.9  | 87.8<br>5.2   | 88.7<br>6.5   | 91.2  | 93.1<br>7.1   |   | 7.7  | 8.0   | 184   | 97.5<br>8.5  | 9.3   | 140.8   | 1   | •   | 11.9   | 12.7   | 38.4  | 1  |
| 8.2<br>8.6<br>65.0<br>8.0   | 8.7<br>68.8<br>3.1   | 5.4<br>3.8<br>63.8<br>3.8                                | 5.9<br>71.6<br>3.6   | 5.2<br>4.0<br>73.6<br>4.9   | 6.5<br>4.2<br>74.7<br>4.8   | 76.5<br>4.6   | 76.8<br>4.8   | 7.4<br>4.9<br>76.6<br>5.0   | 7.7<br>5.3<br>76.3<br>5.2  | 5.7<br>76.0<br>5.5  | 8.4<br>6.2<br>76.1<br>5.7   | 8.5<br>6.6<br>76.1<br>6.0  | 76.5<br>6.2   | 9.8<br>7.8<br>76.8<br>6.5   | 10.3<br>8.9<br>78.1<br>6.7  | 10.9<br>9.7<br>79.9<br>7.0  | 11.9<br>19.6<br>82.3<br>7.8  | 11.2<br>85.6<br>7.7  | 11.9<br>98.3<br>8.0   | 7<br>8<br>9<br>10  |
| 20.2  | 29.5   | 21.4   | 23.2   | 84.5  | \$8.5   | 20.7  | 28.1  | 29.7  | 26.9   | 38.1  | 84.8  | 34.8   | 37.7  | 38.4  | 22.7  | 40.4  | 123  | 48.6   | 463   | 11   |
| 249.7   | 255.5  | 264.0  | 288.€  | 229.7   | 397.3   | 388.5   | 249.4   | 204.3   | 376.3  | 289.7   | .404.2  | 423.4  | 488.6   | 454.5   | 41.8  | 694.2   | \$15.4   | £36.9  | 568.5   | 12   |
| 129.0<br>6.2  | 133.2<br>6.4   | 189.1  | 147.7<br>6.9   | 189.I<br>7.2  | 169.9   | 179.8<br>7.7  | 189.2<br>8.1<br>2.7   | 191.4<br>8.3<br>2.6   | 208.8<br>8.6   | 2110  | 219.4<br>9.8  | 239.3<br>10.5<br>3.5   | 237.6<br>11.0   | 245.0<br>11.3   | 255.0<br>11.9   | 266.6<br>12.5<br>4.0<br>20.8  | 279.1<br>18.0  | 292.2  | 307.0<br>18.5   | 18   |
| 129.0<br>6.2<br>1.9<br>1.2.3<br>85.9<br>13.1<br>10.5<br>16.1<br>10.5<br>16.1<br>2.8 | 139.2<br>6.4<br>1.2.5<br>12.5<br>18.6<br>19.7<br>11.0<br>18.7<br>2.8<br>3.4<br>3.6 | 20<br>129<br>38.5<br>14.8<br>20.6<br>11.6<br>17.5<br>8.7 | 21<br>125<br>405<br>158<br>218<br>127<br>189<br>82<br>88                 | 189.1<br>7.2<br>2.8<br>14.4<br>16.5<br>29.6<br>14.2<br>20.1<br>14.3<br>4.3                                  | 169.9<br>2.4<br>2.4<br>14.7<br>45.9<br>17.8<br>26.7<br>15.7<br>21.0 | 179.8<br>7.7<br>25.1<br>15.1<br>18.5<br>18.4<br>27.1<br>17.1<br>21.8<br>12.2<br>5.1 | 35.6  | 161<br>504  | 8.8<br>2.9<br>16.5<br>50.6<br>21.8<br>38.7<br>28.9<br>24.9<br>43.9 | 9,3<br>2,1<br>17,1<br>54.5  | 9.0<br>3.3<br>17.8<br>58.8<br>28.6<br>26.6<br>14.6<br>4.2           | 18.5<br>51.7   | 3.6<br>19.0<br>88.6<br>25.9<br>88.9                                   | 11.3<br>8.7<br>19.4<br>61.2<br>26.8<br>27.2<br>16.2<br>4.7                | 255.0<br>11.9<br>8.8<br>90.0<br>62.9<br>28.1<br>49.8<br>28.7<br>16.7<br>8.4 | 20.9<br>64.4  | 31.6<br>65.9   | 292.2<br>13.4<br>4.3<br>22.4<br>67.2<br>81.5<br>51.5<br>34.9<br>32.1<br>19.2     | 22.8<br>68.7<br>88.9<br>86.1<br>87.5<br>34.2                                | 18<br>14<br>16<br>17<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18 |
| 18.1<br>19.1<br>10.6  | 18.6<br>19.7   | 14.8<br>20.5   | 15.8<br>21.8   | 16.5<br>21.6  | 17.8<br>26.7  |   | 60.8<br>20.2<br>28.6<br>18.6<br>22.8<br>18.1<br>5.5<br>3.6                                | 16.1<br>52.4<br>21.1<br>29.8<br>19.8<br>23.8<br>18.7<br>69                | 21.8<br>39.7   | 54.5<br>92.6<br>91.7<br>92.1<br>25.8<br>14.9<br>6.5<br>4.0                        | 23.B<br>33.1  | 25.6<br>35.2<br>25.4<br>27.4<br>15.2<br>7.4<br>4.3                           | 35.9<br>88.9  | 24.8<br>38.6  | #28.1<br>#9.8   | 84.4<br>29.4<br>44.8<br>90.3<br>29.9<br>17.4  | 869<br>30.6<br>47.6<br>82.8<br>81.1<br>18.9<br>9.4                 | \$1.8<br>\$1.5<br>\$4.5  | 89.9<br>86.1  | 19   |
| 181<br>80   | 16.7<br>8.4  | 12.6<br>8.7  | 18.9   | 20.1  | 113   | 218   | 18.1  | 23.8<br>18.7  | 24.9<br>13.9   | 25.8<br>14.3  | 26.6  | 27.4<br>15.2   | 28.3<br>27.5<br>16.7<br>7.7<br>4.5                                    | 27.7  | 28.7<br>16.7  | 29.9<br>17.4  | 81.1<br>18.3   | 32.1<br>19.2   | 1 200.25  | 2  |
|   | ſ  | 3.5<br>2.9   | 2.0  | 8.3   | 23  | 1   | •   | 3.7   | 1 28   | 4.0   | 4.8   | 133  | 13  | 1 13  | - 4.9<br>- 4.9  | 89<br>51  | 9.4<br>5.9   | 10.0<br>5.6  | 10.8<br>5.9   | 1  |
| 120.7<br>80.4<br>3.1<br>10.5<br>1.8<br>15.4<br>7.6                                  | 123.8<br>10.9<br>1.1<br>10.3<br>2.0<br>15.9<br>29.1<br>13.6<br>5.6                 | 127.0<br>31.5  | 1228<br>122<br>106<br>28<br>17.6<br>82.7<br>20.5<br>65                   | 140.5<br>33.2   | 118<br>871<br>841<br>1418   | 153.7<br>34.8<br>1.4  | 160.4<br>85.7<br>1.4<br>12.1<br>21.6<br>11.0  | 166.9<br>36.6   | 172.5<br>37.5  | 178.8<br>38.7<br>1.6  | 184.8<br>29.5<br>1.7  | 193.2<br>40.6<br>1.9   | 201.0<br>41.7<br>2.0  | 209.5<br>43.9   | 21RE  | 227.6<br>45.9<br>2.8<br>15.5<br>4.9<br>29.9<br>15.7<br>86.5<br>80.9<br>14.7                 | 286.3<br>47.3<br>24<br>15.6<br>5.0<br>21.4<br>16.5<br>89.3<br>15.9 | 244.6<br>49.7<br>2.8<br>11.7<br>5.1  | 259.3<br>50.0<br>3.1<br>15.8<br>5.2<br>33.9<br>18.1<br>74.5<br>35.9<br>16.1 | 25<br>26<br>27<br>28<br>29<br>30<br>31<br>82<br>89<br>84   |
| 16.8<br>1.8   | 16.8<br>2.0  | 1.1<br>10.4<br>2.2<br>16.5<br>8.2                        | 10.6   | 33.2<br>1.3<br>11.1<br>2.5<br>28.8<br>9.2   | 11.3  | 11.7<br>3.0   | 121   | 36.6<br>1.5<br>12.4<br>8.4<br>23.4<br>11.6<br>44.1<br>84.1<br>9.8         | 1.5<br>12.8<br>3.6<br>22.8<br>12.1<br>45.9<br>24.6<br>10.2         | 18.6  | 14.0  | 14.6   | 14.7<br>4.5<br>26.2   | 42.0<br>2.0<br>14.9<br>4.6<br>27.4<br>14.4<br>59.1<br>29.3<br>12.4        | 44.4<br>21<br>16.2<br>4.7<br>28.6<br>15.0<br>53.2<br>14.9                   | 114   | 15.6<br>5.0  | 11.7<br>51   | 638<br>  52   | 28<br>29   |
| 154<br>7.6<br>281   | 15.9<br>7.9  | 16.5<br>8.2<br>30.4                                      | 17.6<br>8.6<br>32.7  | 29.8<br>9.2<br>85.4   | 19.5<br>9.5<br>27.6   | 20.7<br>20.4<br>39.9  | 21.6<br>11.0  | 224   | 22.8<br>12.1   | 25.4<br>  12.7<br>  47.2  | 24.1.<br>18.8   | 25.1<br>18.8<br>80.7   | 26.2<br>14.1  | 274   | 28.6<br>15.0  | 29.9<br>15.7<br>88.5  | 21.4<br>16.5   | 17.5<br>22.0   | 33.9 ·<br>18.1  | 30<br>31<br>82   |
| 281<br>19.4<br>8.4<br>9   | 19.6<br>5.6  | 30.4<br>19.7<br>6.0                                      | 20.8<br>6.5  | 85.4<br>80.6<br>7.1<br>1.0  | 2.7<br>19.9<br>9.9<br>87.6<br>27.5<br>7.7<br>1.0                    | 11.7<br>3.0<br>20.7<br>10.4<br>39.9<br>29.4<br>8.4<br>1.1                           | 41.9<br>25.2<br>9.2<br>1.1  | 841<br>9.8  |  | 4.0<br>28.4<br>12.7<br>47.8<br>25.4<br>10.8                                       | 24.1<br>18.8<br>49.1<br>25.9<br>11.8<br>1.8                         | 25.1<br>18.8<br>52.3<br>26.9<br>18.8<br>1.2                                  | 14.1<br>65.6<br>28.0<br>13.0  | 29.3<br>13.4  | 30.2<br>14.0  | 30.9<br>14.7  | 32.2<br>15.3   | 32.9<br>17.9<br>72.0<br>38.4<br>16.7<br>1.4                                      | 35.8<br>16.1  | 35<br>84   |
| 1839<br>3   | 342.5  | .9<br>371.1  | 397.B  | 397.6   | 1.0<br>412.6  | 480.0   | 449.0   | 1.1<br>407.6  | 1.1<br>484.9   | 5803.7  | 627.9   | 1.2<br>549.4   | 1.2<br>664.3  | 582.5   | 602.1   | 626.4   | 651.6  | 675.7  | 1.4<br>697.6  | 77<br>70   |
| 167.0   | 145.8  | 146.9<br>88.2  | 148.3<br>62.4  | 160.7<br>81.9   | 153.0<br>30.9   | 156.1<br>79.8<br>8.1  | 159.4<br>78.7   | 161.2<br>77.2   | 162.6<br>75.0  | 164.6<br>74.4   | 168.7<br>73.7   | 171.8<br>78.0  | 178.6   | 1761  | 178.3<br>69.6   | 182.6<br>69.9<br>5.1  | 185.6<br>89.5  | 189.4<br>68.5  | 19].1<br>8†3  | 37<br>38   |
| 85.9<br>7.2<br>17.4   | 7.2<br>IB.0  | 7.0<br>18.6  | 19.0   | 196   | 19.6  | 1 2415.   | 8.9<br>21.5   | 161.2<br>77.2<br>5.8<br>28.2  | 162.6<br>76.0<br>5.7<br>23.2<br>15.9<br>20.3                       | 164.6<br>74.6<br>6.5<br>24.6<br>16.6<br>21.3                                      | 5.4<br>25.7   | 171.8<br>78.0<br>5.2<br>28.4<br>18.8<br>22.4                                 | 29.0  | 176.1<br>70.5<br>&1<br>20.4<br>19.7                                       | 32.1  | 34.5  | 85.5<br>86.6   | 5.0<br>37.9  | 5.0<br>98.7   | 39<br>40   |
| 111<br>62<br>95<br>68   | 844<br>72<br>180<br>13.1<br>8.4<br>9.6<br>6.0                                      | 146.9<br>88.2<br>7.0<br>16.6<br>18.2<br>8.0<br>8.7       | 62.6<br>6.8<br>19.0<br>18.4<br>10.2<br>9.7<br>6.9                        | 13.7<br>11.7<br>9.7<br>7.8  | 140<br>186<br>99<br>84  | 14.5<br>16.2<br>10.8<br>8.9   | 15.0<br>18.2<br>10.4  | 15.5<br>19.6<br>10.6  | 20.3<br>10.9   | 213   | 198.7<br>79.7<br>5.4<br>26.7<br>17.6<br>22.8<br>1].2<br>11.3        | 翼  | 178.6<br>71.8<br>5.2<br>29.0<br>19.0<br>28.7<br>12.7                  | 14.5  | 178.3<br>69.6<br>8.1<br>32.1<br>90.3<br>23.8<br>14.8                        | 21.2<br>24.0<br>15.0<br>12.9  | 1866<br>89.5<br>5.1<br>96.6<br>22.3<br>24.7<br>15.1<br>18.4        | 189.4<br>68.5<br>5.0<br>37.9<br>28.2<br>25.8<br>15.3<br>18.7                     | 5.0<br>48.7<br>24.3<br>26.1<br>18.4<br>18.9                                 | 87<br>88<br>89<br>40<br>41<br>42<br>43<br>44   |
|   |  | ₽-0  |  | 1   | •   | •   | 9.7   | 10.2  | 10.6   | 111.0   | ,   | 1178   | 192<br>151.0  | 124   | 150   | 1   |  |  | ı   |  |
| 65.0<br>61.6<br>3.3   | 69.4<br>65.8<br>3.6  | 73.7<br>69.8<br>8.9                                      | 78.9<br>14.7<br>4.2  | 84.5<br>79.9<br>4.6   | 90.1<br>85.1<br>8.0   | 96.2<br>90.8<br>5.4   | 108.4<br>97.5<br>5.5  | 111.5<br>105.3<br>6.2   | 119.1<br>112.5<br>6.6  | 126.3<br>119.3<br>7.0   | 135.8<br>127.9<br>7.4   | 144.2<br>136.5<br>7.7  | 142.9   | 157.5<br>149.1<br>8.4   | 166.4<br>167.6<br>8.8   | 177.0<br>167.3<br>9.2   | 189.6<br>179.9<br>9.7  | 201,5<br>191.3<br>10.2   | 213.1<br>202.2<br>10.8  | 45<br>46<br>47   |
| 241.9<br>97.1<br>39.1   | 146.2<br>100.5<br>29.9   | 150.5<br>103.9<br>. 40.9                                 | 1559<br>108.0  | 162.2<br>112.6<br>43.9  | 169.6<br>118.5<br>45.3<br>5.8                                       | 177.7<br>124.6<br>47.3<br>5.8   | 184.8<br>131.0<br>49.2<br>6-0   | 194.8<br>138.1<br>60.6<br>6.2   | 202.2<br>145.5<br>61.5<br>6.2                                      | \$12.9<br>153.8<br>52.7<br>6.4  | 223.9<br>168.2<br>54.2<br>6.5                                       | 238.4<br>172.0<br>55.1<br>6.6  | 241.9<br>119.7<br>56.4<br>5.7   | 248.9<br>196.7<br>56.5<br>6.8   | 257.4<br>194.8<br>55.7<br>6.8   | 286.8<br>202.7<br>56.2<br>6.9   | 275.8<br>211.4<br>86.3<br>7.0                                      | 284.8<br>220.1<br>57.6<br>7.1  | 293.0<br>227.1<br>58.8<br>7.1   | 48<br>49<br>50<br>51   |
| 39.1<br>5.7   | 89.9<br>5.7  | £.T  | 6.7  | 63  | [   |   | •   | 1   | 1  |   |   |  | ı   | ľ   |   | •   | ]  | 1  | , .   | 1  |
| 31.5<br>58.8  | 23.5<br>51.7   | 25.4<br>60.1   | 57.#<br>63,3   | 30.5<br>67.4  | 3 <b>2.9</b><br>10.7  | 36.4<br>74.7  | 39.2<br>78.9  | 42.3<br>62.6  | 45.3<br>66.3   | 48.9<br>50.8  | \$3.8<br>96.4   | 192.6  | 85.1<br>194.7   | 108.4   | 113.1   | 72.6<br>119.0   | 16.3   | 80.2<br>130.4  | 84.6<br>135.8   | 52<br>58   |
| 15L.2   | 157.8  | 166.¢  | 176.5  | 167.1   | 196.7   | 297.6   | #1  | BISE  | 244.2  | 257.7   | \$72.4  | 182,9  | 291.9   | 300.0   | 248.5   | 32L7  | 137.0  | 352J   | 188.7   | 54   |
| 11.8<br>5.3   | 18.8<br>5.5  | 13.2<br>6.2  | 74.1<br>6.9  | 16.1<br>7.5   | 16.0<br>5.2   | 17.3<br>9.4   | 18.5<br>19.5  | 19.7<br>11.5  | 27.1<br>12.7   | 22.?<br>18.8  | 24.7<br>15.5  | 26.7<br>17.6   | 28.5<br>18.4  | \$0.3<br>21.8   | 32.3<br>24.0  | \$5.6<br>\$6.2  | 39.5<br>28.0   | 45.0<br>89.4   | 47.8<br>32.4  | 55<br>56   |
| 53<br>7<br>83<br>16<br>175<br>10  | 5.5<br>8.4<br>1.8<br>139.2<br>1.1  | 6.2<br>.7<br>3.7<br>1.5<br>139.8<br>1.2                  | 6,1<br>1,7<br>1,47,8<br>1,4  | 7.5<br>.8<br>4.4<br>1.6   | 5.2<br>9<br>4.8<br>1.8<br>188.4<br>1.6                              | 8.4<br>1.0<br>5.2<br>1.5<br>171.2<br>LB   | 19.5<br>1.1<br>8.6<br>1.9<br>186.7<br>2.0   | 첉   | 64<br>20   | 1.8<br>6.7<br>8.0   | 1.2<br>7.1  | 1.4<br>7.6   | 1.5<br>1.8<br>9.9   | 1.5<br>8.2<br>2.5   | 1.6<br>8.5<br>8.4   | 55.2<br>1.7<br>5.1<br>24  | 1,7<br>9.7<br>9.7  | 10.3<br>2.9  | 185   | 85 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8   |
| 127.5<br>1.0  | 139.2<br>1.1   | 129.8<br>1.2   | 147.8  | 158.9<br>1.5  | 188.4<br>L.6  | 171.3<br>LB   | 186.7<br>2.0  | 11.5<br>1.1<br>1.9<br>189.9<br>2.2  | 12.7<br>1.2<br>8.3<br>2.0<br>196.4<br>2.8                          | 18.8<br>1.8<br>6.7<br>8.0<br>208.4<br>2.9   | 75.5<br>1.3<br>7.1<br>2.1<br>2.18.5<br>3.2                          | 17.6<br>1.4<br>7.5<br>2.1<br>225.1<br>3.5                                    | 19.4<br>1.5<br>2.9<br>2.2<br>22<br>228.7<br>8.7                       | 21.8<br>1.5<br>8.2<br>2.3<br>252.1<br>3.9                                 | 24.0<br>1.6<br>8.5<br>2.4<br>295.5<br>4.1                                   | 26<br>262.3<br>6.8  | 28.0<br>1.7<br>9.7<br>2.7<br>250.9<br>4.6                          | 89.4<br>1.8<br>10.3<br>2.9<br>259.3<br>4.6                                       | 32.4<br>1.9<br>18.9<br>3.0<br>267.9<br>4.5                                  | # # # # # # # # # # # # # # # # # # #  |
| 64.7  | <b>68.</b> j   | n.e  | 19.3   | 85.2  | 95.0  | 37.2  | 104.6   | 111.3   | 168.0  | 127.0   | E87.0   | 144.2  | 1464  | L68.1   | 157.7   | 163.4   | 171.9  | 178.0  | 187.3   | 82   |
| 120<br>66<br>95   | 13.1<br>6.6<br>9.0   | 142<br>62  | 15.2<br>6.6  | 16.2<br>7.0   | 17.1<br>7.3   | 18.1<br>7.7   | 19.1<br>8.0   | 20.2<br>8.3   | 21.3<br>8.7  | 22.5<br>9.2   | 24.0<br>9.7   | 84.9<br>10.1   | 254<br>104  | 25.9<br>10.6  | 24.4<br>10.8  | 27.1<br>11.1  | 28.0<br>11.4<br>36.1<br>27.8                                       | 29.0<br>11.5   | 30.2<br>11.8  | B3<br>  B4<br>  E4   |
| 100   | 10.5   | 11.3<br>1.8  | 122  | 18.5  | 14.1<br>21  | 15.1  | 16.5  | 17.1<br>2.5   | 17.9   | 19.1  | 20.7<br>3.3   | 22.0<br>8.5  | 22.6<br>3.6   | 23.7<br>3.3   | 25.0  | 26.5<br>4.2   | 27.8<br>4.4  | 29.8   | 29.8<br>4.7   | - 86<br>86<br>87   |
| 86<br>168   | 1.5<br>8.5<br>18.1   | 21<br>92<br>19.6   | 2.2<br>9.5<br>31.2   | 2.8<br>9.7<br>22.7  | 2.5<br>10.0<br>23.9   | 2.6<br>10.2<br>25.4   | 2-8<br>10-6<br>27-2   | 2.0<br>10.9<br>22.9   | 3.3<br>11.2<br>36.4  | 3.5<br>11.8<br>32.2   | 3.6<br>12.1<br>84 8   | 4.0<br>12.5<br>38.6  | 4.2<br>12.8<br>38.1   | 25.9<br>10.6<br>32.8<br>23.7<br>3.9<br>4.4<br>13.0<br>28.7<br>31.0<br>3.3 | 13.3  | 4.8<br>13.6<br>43.8   | 13.8   | 14.0<br>48.9   | 6.6<br>14.1<br>49.2   | 68<br>69   |
| 120<br>528<br>168<br>169<br>169<br>169<br>169<br>169                                | 13.1<br>5.6<br>9.0<br>10.5<br>1.7<br>18.1<br>8.6<br>2.1<br>18.1                    | 142<br>5.8<br>11.3<br>1.8<br>19.5<br>19.5<br>16.4        | 15.2<br>10.5<br>12.2<br>1.9<br>2.2<br>9.5<br>31.2<br>19.7<br>2.6<br>10.6 | 162<br>7.0<br>11.9<br>13.5<br>12.9<br>2.7<br>11.5<br>2.7<br>11.5<br>2.7<br>11.5<br>1.7<br>2.7<br>1.7<br>2.7 | 17.1<br>7.3<br>18.9<br>14.1<br>2.5<br>10.0<br>23.9<br>12.3<br>17.6  | 18.1<br>7.7<br>15.9<br>15.1<br>2.6<br>20.2<br>25.4<br>13.1<br>2.8<br>1.4            | 19.1<br>8.0<br>18.2<br>16.3<br>2.4<br>2.8<br>10.6<br>27.2<br>14.2<br>14.3<br>14.3<br>14.3 | 20.2<br>8.3<br>20.4<br>17.5<br>10.9<br>21.5<br>20.9<br>15.2<br>1.4<br>1.4 | 21.2<br>8.1<br>22.5<br>17.5<br>2.3<br>11.2<br>20.4<br>19.0<br>1.4  | 23.5<br>9.2<br>25.7<br>19.1<br>3.5<br>11.8<br>32.2<br>17.1<br>3.1<br>14.4<br>10.6 | 24.5<br>97.5<br>28.7<br>28.7<br>3.8<br>12.1<br>34.6<br>18.2<br>11.7 | 84.9<br>10.1<br>80.0<br>22.0<br>22.0<br>12.5<br>36.5<br>12.5<br>12.5<br>12.6 | 254<br>314<br>314<br>226<br>36<br>42<br>128<br>381<br>201<br>33<br>14 | 31.0<br>3.3   | 26.4<br>10.8<br>32.5<br>25.0<br>4.6<br>13.3<br>41.9<br>21.8<br>3.4          | 11.1<br>35.4<br>26.5<br>4.8<br>43.6<br>43.6<br>43.6<br>43.6<br>43.6<br>43.6<br>43.6<br>43.6 | 4.4<br>5.1<br>13.8<br>44.4<br>22.5<br>5.4<br>1.4                   | 29.0<br>11.5<br>38.4<br>29.8<br>4.6<br>6.4<br>14.0<br>48.3<br>24.6<br>8.5<br>1.4 | 502<br>118<br>420<br>29.8<br>47.<br>66.6<br>14.1<br>26.9<br>1.5<br>17.8     | 68 65 67 68 69 771 273 74  |
| 1 1   |  |  |  |   | . '   | 1   |   | 1   |  |   |   | l .  |   | 18.9  | •   |   |  |  |   |  |
| \$83.5<br>52.8  | 1,814.6<br>52.7  | 52.6   | 1.447.6<br>58.4  | 3,1129 ·  | 1,749.9<br>52.0   | 1,174.#<br>58.0   | 1,308.1<br>51.6   | 7.250.6<br>67.5   | 1,280.9<br>51.9  | 1,332.6<br>51.1   | 1,39±;  | 1,417.3<br>51.0  | 1,445,7<br>en-9   | 2,492.6<br>58.6   | 1,586.8   | 1,57L7<br>58.4  | 1.63E1   | 1,4540<br>500  | 1,686.6<br>AG.5   | 75<br>76   |
| 52.8<br>920.6   | 52.7<br>963.9  | 52.6<br>197.9  | 58.4<br>1,031.4  | 57.8<br>1,869.7   | 52 <u>\$</u><br>1, <b>488</b> .8                                    | 53.0<br>1,122.6   | 51.6<br>1,186.2   | 52.5<br>1,187.1   | 51.8<br>1.229.6  | 51.1<br>1,281.4   | 50.8<br>2,351.2   | 51.0<br>1,566.8  | 50.7<br>1,314.9   | 50.6<br>1,4 <b>31</b> .6  | 50.6<br>1,476.8   | 58.4<br>1,62LB  | 50.2<br>1,568.9  | 50.0<br>1, <b>684.</b> 0   | 49.5<br>1,638.2   | 77<br>77   |

Table 4.—Constant-Dollar Net Stock of Fixed Private Capital,

|  | · · · · · · · · · · · · · · · · · · ·  | <del></del> -                           |   |                           |  | ,  |  |   |   |   |  |  |  |                           |  | ATTICODE Ó                          |
|--|--|---|---|---------------------------|--|--|--|---|---|---|--|--|--|---------------------------|--|-------------------------------------|
| Line   |  | 1947                                    | 1948                                    | 1348                      | 1960   | 1951   | 1952   | 1958                                    | 1954                                    | 1935                                    | 1966   | 1957   | 1968   | 1959                      | 1980   | 1981 -                              |
| 1  | Pixed private espital  | 672.9                                   | 74.4                                    | 741.5                     | 785.7  | 826.1  | \$53.5   | 667.9                                   | 922.9                                   | 145.8                                   | 1,007.8                                      | 14674  | 1,461.2  | 1,121.4                   | 2.164.0  | 1,196,7                             |
| 2  | Nerges Res (Int.   | 833.4                                   | 352.4                                   | 368.6                     | 396.9  | 406.3  | 413.1  | 445.0                                   | 459.0                                   | 189.2                                   | 563.0  | 595.2  | 529.1  | 564.6                     | 876.8  | 534.2                               |
| 8  | Agriculture, Security, and Oskerice  |   | 29.8                                    | 22.1                      | 34.t   | 38.4   | 40.0   | 41.1                                    | u.e                                     | 42.5                                    | 42.2   | 123  | 42.6   | 42.4                      | 43.5   | 43.2                                |
| 4 6  | Farmul,  | 24.9<br>1.3                             | 28.4                                    | \$1.6                     | 34.9   | 86.7   | 98.1   | 89.2                                    | 39.7                                    | 40.2                                    | 48.0   | 28.8   | 40.1   | 41.€                      | 41.0   | 41.8<br>2.5                         |
|  | Partial Agricultural services, forestry, and fighteries  |   | 14                                      | 1.5                       | 1.6  | . 1.7  | 1.0  | 18                                      | 1 19                                    | 21                                      | 21   | 9.2  | 3.4  | 2.4                       | 24   | •                                   |
| . 6  | Mising   | l l                                     | 29.3                                    | 21.7                      | 23.9   | 24.3   | 16.2   | 20.7                                    | 30.6                                    | 23.4                                    | 21.3   | 57.2   | 38.4   | 39.6                      | 14.5   | 41.8                                |
| 7  | Motel mining   | 1.6                                     | 120<br>160<br>1.2                       | 1.7<br>1.9<br>16.9        | L7<br>  L8                                     | 1.5  | 1.5  | 2.L<br>1.6                              | 2.2<br>1.5                              | 23<br>15<br>27.8                        | 2.4<br>1.5<br>24.5                           | 2.6<br>1.5   | 2.6<br>1.5<br>82.8<br>1.5                          | 2.6<br>1.5                | 1.6<br>84.7  | 1.8<br>35.6                         |
| 9<br>10  | Cool mining O) and gas entraction Nonmetallic minurals, except funis   | 15.1                                    | 1.2                                     | 16.9<br>1.2               | 182<br>182<br>18                               | 19.5   | 21.2   | 283                                     | 25.4                                    | 27.8                                    | 24.5   | 31.6<br>1.8  | 87.8<br>L5   | ##.5<br>  1.5             | 84.7<br>1.5  | \$5.6<br>  1.5                      |
| 11   | Caracteration  | 6.3                                     | 1.4                                     | 7.5                       | 8.5  | 2.0  | 9.4  | 9.6                                     | 9.6                                     | 9.8                                     | 9.7  | 9.8  | 9.9  | 30.E                      | 20.2   | 19.2                                |
| 12   | Manufacturing  | Вил                                     | 99.1                                    | 22.0                      | 950  | 96.0   | 184.5  | 196.4                                   | 1123                                    | 115.9                                   | 122.7  | 125.2  | 130.8  | 131.6                     | 134.9  | 137.6                               |
| 18   | Dorable goods  | 38.3                                    | 40.9                                    | 41.5                      | 42.5   | 46.0   | 19.7   | 528.8                                   | 55.4<br>27                              | 58.8                                    | 63.4   | 69.0   | <b>69</b> ,1                                       | 70.0                      | 72.8   | 73.7                                |
| 13<br>14<br>15<br>15<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | Sumber and wood products  Sumiture and fixtures  Stone, clay, and glass products   | 20<br>28<br>40                          | 2.2                                     | 2.8                       | 41   | 26<br>.8                                     | 26   | 2.5                                     | 2.7<br>4.5                              | 2.9                                     | 63.4<br>3.1                                  | 8.1<br>8.2   | 3.L  | 32                        | 8.3<br>1.0   | 73.7<br>3.3<br>1.0<br>6.8           |
| 15 J   | Stone, clay, and glass products Primary motal industries   | 1 564                                   | 41<br>113<br>41<br>67<br>34<br>44<br>21 | 1 4.1                     | 11.6   | 8<br>48<br>129<br>48<br>78<br>51<br>28<br>10 | 14.6   |   | 15.9                                    | 163                                     | 5.6<br>17.7                                  | 8.2<br>19.6  | 49   | 6.4                       | 6.6  | 6.8<br>21.4                         |
| 18<br>19   | Primary metal adustrics Pabricated sectal products Machinery, except electrical  | 10.4<br>13.5<br>13.2<br>3.2             | 41                                      | 11.6<br>4.2<br>6.8<br>8.5 | 4.5<br>6.9                                     | 48   | 5.0<br>7.8                                     | 15.5<br>8.4<br>8.3<br>4.8<br>6.1<br>2.8 | 15.9<br>5.8<br>8.7<br>4.5<br>6.8<br>3.0 | 16.3<br>6.2<br>8.1<br>4.7<br>7.4<br>8.2 | 67   | 10.2   | 20.2<br>7.2<br>10.2<br>5.4<br>8.4                  | 20.2<br>7.3<br>10.4       | 21.1<br>7.5<br>10.6                                | 21.4<br>7.6<br>10.8                 |
| 80   | Electric and electronic equipment  | 32                                      | 34                                      | 4.5                       | 3.6<br>4.7                                     | 3.6  | 1 42   | 4.4                                     | 45                                      | 1 17                                    | Į ŠĮ   | 15.3   | <b>1</b> 64  | \$.6                      | Šã i   | 6.2                                 |
| 数  | Other transportation equipment.  | 20                                      | Į 2 <u>į</u>                            | 2.0                       | 20   | 2.5  | 2.6  | ž.                                      | 0.6                                     | ( \$2                                   | 8.8  | 7.6<br>10.2<br>5.3<br>8.6<br>4.3<br>1.4            | 13   | 5,5<br>8.4<br>4.5         | 58<br>86<br>46<br>17                               | 1.8                                 |
| 24   | Other transportation equipment. Instruments and related products. Miscellaneous manufacturing industries   | 2                                       | 1,3                                     | 1.0                       | 1.0  | ដែ   | 14.6<br>6.0<br>7.8<br>4.0<br>6.6<br>2.6<br>1.0 | L                                       | 1.1                                     | l li                                    | 67<br>96<br>51<br>81<br>88<br>13<br>15       | 1.4  | 냅  | 1.4                       | 13   | 6.2<br>8.1<br>4.8<br>1.9<br>1.4     |
| 25   | Pool and kindred products  | 46.2<br>14.5                            | 49.2<br>15.2                            | 50.5<br>15.5              | 51.4<br>15.6                                   | 58.1<br>75.7                                 | 64.3<br>15.4                                   | \$5.6<br>15.3                           | 100.0                                   | 87.6<br>15.9                            | <b>29:</b> 8                                 | 61.3<br>15.1                                       | 61.7   | <u> </u>                  | 62.7   | 64.0                                |
| 25<br>26<br>27<br>28<br>28<br>29<br>21<br>22<br>24<br>25             | Tobacca manufactures   |   | l .6                                    | J .5                      | 18.6   | 12.7   | 10.4   | 16.3                                    | 162                                     | 15-3<br>4<br>6.7                        | 15.1   | 16.1<br>5  | 16.0<br>.5   | 161<br>5                  | 15.2   | 15.8<br>6.7                         |
| 20   | Textile mill products  | R                                       | 5.9<br>6.3                              | 6.i                       | 6.8<br>9<br>5.6                                | 6.3<br>B<br>6.8<br>8.1                       | 63   | 6,1<br>.8                               |   | 6.7<br>B<br>6.7                         | 85<br>73                                     | 5.3<br>5.9<br>7.9                                  | 5,0<br>P   | ( <u>.</u> ₽- ∣           | اۋە ا  | . 9                                 |
| 30 S   | Poper and altied products Prouting and publishing Chemicals and altied products  | 5.0<br>2.4                              | 6.3<br>2.6                              | 5.5<br>2.6                | 5.6<br>3.0                                     | K.B  | 5.3<br>8.1                                     | #1<br>#1                                | 82                                      | [ 2.3:                                  | 7,3  | 7,9<br>3.5   | 8.1<br>8.7   | 8.2                       | 8.8<br>4.0   | 8.5                                 |
| 32 )<br>33 )   | Chemicals and allied products  | 24                                      | 10.0                                    | 10.2<br>7.1               | 18.6   | 백  | 12.0   | 12.6<br>8.7                             | I E B                                   | 130<br>97<br>22                         | 13.5<br>16.8                                 | 14.2   | 14.5   | 16.4                      | 14.6   | 16.4<br>11.1                        |
| 좭)   | Petrolinum and coul products  Rubber and majoritimeous plantic products Leather and leather products   | 6.1<br>1.5<br>.5                        | 6.8<br>1.6                              | 1.5                       | iţ   | 1.6  | 1.5  | 20                                      | 94<br>21<br>5                           | 22                                      | 24   | 2.4  | 11.1<br>3.5<br>-5                                  | 16.4<br>10.9<br>2.5<br>.5 | 110  | 29                                  |
| 36   | Transportation and public utilizies  | 1                                       | 125.3                                   | 131.3                     | 136.6  | 1424   | 148.6  | 154.4                                   | 1884                                    | 162.7                                   | 163.1  | 176.0  | 178.9  | 184.3                     | 199.3  | 194.7                               |
| शर   | Transportation   |   | 49.4                                    | 70.1                      | 70.2   | 71.0   | 75.9   | 71.6                                    | 70.7                                    | 70.9                                    | 79.2   | 71.0   | 69.7   | 69.4<br>88.8              | €9.3   | 88,6<br>88,6                        |
| 38<br>39   | Kaliford transportation  | 43.L                                    | 48.5<br>6.7<br>5.8<br>6.3<br>1.6<br>4.4 | 43.8<br>5.8               | 48.5   | 48.5<br>5.2<br>7.8<br>6.0<br>1.6             | 18.5<br>5.0<br>7.2<br>6.2                      | 48.4<br>4.8                             | 42.5<br>4.8                             | 41.6                                    | 41.2   | 41.2   | 69.7<br>49.0<br>3.7                                | 888<br>8.5                | 69.3<br>37.9<br>3.8<br>8.6                         | \$8.8<br>3.2                        |
| 40   | Tradising and sprehgaping.   | 6.5                                     | 5.8                                     | 6.3                       | 69   | 18   | 7.2  | 7.2                                     | 7.0                                     | 7.3                                     | 7.6  | 6.1<br>7.9<br>6.7                                  | 40<br>49   | 82<br>7.1                 | 8,6<br>7.1   | 32<br>89<br>7.1                     |
| 43   | I FROM PORTAGE OF ALTHOUGH THE TANK THE | 1.5                                     | 14                                      | 1.6 (                     | 48.5<br>5.4<br>6.9<br>5.9<br>1.8<br>4.6<br>2.4 | Į įį   | 1.8<br>4.9<br>2.6                              | 8.4<br>  1.5<br>  1.5                   | 4.8<br>7.0<br>6.3<br>2.1<br>5.3<br>2.8  | 4.5<br>7.3<br>6.2<br>8.1<br>5.8         | 42<br>7.6<br>6.4<br>2.5<br>5.2<br>8.0        | 29<br>52   | 8.1  | 9.8<br>5.0                | (3<br>60   | 4.5                                 |
| ũ  | Pipelines, except natural gas<br>Transportation services   | <u>1</u> 2                              | 21                                      | \$4<br>\$2                | 24   | 27   | 2.8  | L.9<br>6.2<br>2.8                       | \$3                                     | 10                                      | 8.5  | 8.0  | 61<br>29   | 8.0                       | 32   | 4.9<br>3.2                          |
| 46   | Communication Telephone and telegraph Redio and television broadcasting  | 14.8                                    | 16.4<br>16.5                            | 17.9<br>18.9              | 19.1<br>18.2                                   | 20.1<br>19.1                                 | 21.5<br>20.5                                   | 23.1<br>22.0                            | 24.4<br>23.2                            | 25.9<br>24.7                            | 28.5<br>27.0                                 | 80.4<br>28.9<br>1.8                                | 31.5<br>80.2                                       | 39.5<br>31.8<br>1.7       | 36.0<br>34.1                                       | 29,4<br>99,0                        |
| 17   | Redio and television broadcasting  | 13.6<br>.\$                             | 10.3                                    | 1.0                       | 1.0  | 11.0   | 1.5  | 122                                     | 7.1                                     | 1.2                                     | 1.4  | 1.6  | 1.6  | *£7                       | 13   | 88.8<br>2.1                         |
| 49<br>48   | Electric, gas, and sanitary services   | \$6.8<br>\$3.4<br>10.2                  | 29,6<br>25.9                            | 49.2<br>28.6<br>11.9      | 17.5   | 51.3   | 55.2   | . 69.7                                  | 63.5                                    | 66.8                                    | 70,6   | 74.5   | 78.4   | 828                       | 86.0   | 67.5                                |
| 50 (   | Ges Pervices   | 102                                     | 10.9                                    |                           | \$1.7<br>13.1<br>2.7                           | 51.3<br>34.2<br>14.5<br>2.6                  | 55.2<br>37.3<br>15.3<br>2.6                    | 164<br>164<br>27                        | 42.6<br>17.6                            | 462<br>178<br>27                        | 48.0<br>18.9<br>2.6                          | 51.8<br>20.0<br>2.7                                | 84.8<br>20.9<br>2.8                                | 67.8<br>22.0              | 59.6<br>22.6<br>2.9                                | 61.4<br>23.8<br>2.8                 |
| 51   | Service  | 2.7                                     |   | 3.6                       |  | l  | l  | -                                       | 2.7                                     | ı                                       |  |  |  | 2.8                       |  |                                     |
| 52   | Whatesake (rade  | 6.7                                     | 6.2                                     | 4.7                       | 7.2  | 7.5  | 7.6  | 7.8                                     | 8.5                                     | 9,0                                     | *4   | 9.9  | 2.01   | 10.7                      | 22.6   | 12.1                                |
| 58   | Retail trade   | 17.4                                    | 18.5                                    | 11.2                      | 20-5   | 20.0   | 29.7   | 23.5                                    | 22.3                                    | 23.7                                    | 24.6   | 25.1   | 29.L   | 27.5                      | 28.8   | 29.0                                |
| 54   | Finance, insurance, and real estate  |   | 40.2                                    | 41.6                      | 44.4   | 47.6   | 49.t   | 62.0                                    | 88.4                                    | 60.2                                    | 44.4   | 68.2   | 71.3   | 27.1                      | 82.0   | 61.3                                |
| 55<br>56   | Resking Credit agencies other than banks   | 9.4<br>1.1                              | 8.4<br>1.2<br>.3                        | 3.4<br>1.2<br>9           | 3.5<br>1.3<br>.8<br>.9                         | 9.6<br>1.4                                   | 3.5<br>I.5                                     | 1.9<br>1.8                              | 3.9<br>1.9                              | 4.3<br>2.L                              | 4.6<br>2.3<br>3<br>1.5                       | 6.0<br>2.4   | 43<br>25<br>.3<br>1.7                              | 1.8<br>2.8<br>1.8         | 8.2<br>2.0   | 8.6<br>8.1                          |
| 57<br>68   | Security, commodity brokers and services   | - 8                                     | .8                                      | 3                         | 3 1  | 1.   | 1.0  | 1.1                                     | 1.9<br>.2<br>1.2                        | .8<br>1.4                               | .3<br>1.5                                    | 1.5  | 1.7  | 81                        | 18   | 2.0                                 |
| 55<br>56<br>57<br>68<br>59<br>61                                     | Enterance agency, brokers, and services  | 32.B                                    | 38.9                                    | 35.3                      | 88.0   | 40.4   | 1.5<br>1.0<br>5<br>41.9                        | 443                                     | 47.3                                    | 61.8                                    | 812  | 88.1   | 6 . 0  | 65.3                      | 69.4   | 78.9                                |
| 6L   | Real estate. Holding and other investment companies  | 32.5                                    | .30.9                                   | .A                        | .4   | <b>"</b> "                                   | 41.5   | 7.8                                     | **.4                                    | **A                                     | 4  | 7.4  | .4   | ž ]                       | ~£   | ·".ē                                |
| 62   | Services   | 13.7                                    | 14.3                                    | 14.9                      | 1£.I   | 17.3   | 18.2   | 19.9                                    | ž1.5                                    | 23.7                                    | 25.7   | 27.7   | 29.5   | <b>31.7</b>               | 34.2   | 34.6                                |
| 63<br>64   | Hotels and other halging places  | 13                                      | 8.9                                     | 3.8                       | 8.8  | 3.7  | 8.6<br>1.1                                     | 3.6                                     | 2.5                                     | 22                                      | 41   | 44   | 4.7<br>2.6   | 53<br>28                  | 6.9<br>2.9<br>4.2<br>6.6                           | 8.7 ·                               |
| ន្ន  | Bandpase services  | 14                                      | ī,                                      | ្រុំវិត្ត                 | 58<br>15<br>15<br>15                           | 1.6<br>2.0<br>1.9                            | 92   | 25                                      | 2.5<br>2.7<br>3.3                       | 3,0                                     | 1.6  | \$ 6 J   | 9.8  | ii                        | 14   | Į.Š.                                |
| 84 55 55 55 55 55 55 55 55 55 55 55 55 55                            | Auto repair, cervices, and garages  Miscellaneous repair services  | 140000000000000000000000000000000000000 | 9,4549,678847<br>8,4549,678847          | dales substant            | LS<br>,  | 1.8<br>4<br>.8                               | 의학자는 구착은 숙면의                                   | 2010 C 40 T 20 T 20                     | 4.a                                     | 201885770<br>28485770                   | 2.3<br>8.8<br>4.4<br>.7<br>8.6<br>6.4<br>8.0 | 2.4<br>3.6<br>4.8<br>9<br>3.7<br>7.2<br>3.4<br>1.1 | 2.6<br>8.8<br>5.0<br>9<br>3.8<br>7.9<br>3.8<br>1.1 | 41<br>82<br>8             |  | 8.7<br>8.1<br>4.5<br>5.8<br>9<br>10 |
| 8  | Appellebrage and recreation pervious   | 28                                      | 27                                      | 2.6                       | 44889474                                       | 8.6  | #.î  | 3.5                                     | ****************                        | 3.5                                     | 3.6  | 3.7  | 9.3g   | 4.0                       | .9<br>4.0<br>4.2<br>9.4<br>4.6<br>1.2<br>.6<br>3.1 | [44]                                |
| 70   | Other services Health services   | 25<br>1.1                               | 28<br>1.8                               | 3.0<br>1.8                | 3.5<br>1.5                                     | 80<br>30<br>18                               | 4.8<br>2.0                                     | 4,T<br>2.8                              | 5.1<br>2.3                              | 87<br>27                                | 86   | 7.2  | 7.9  | 4.D<br>8.7<br>4.2<br>1.2  | 9.4<br>4.6   | 10.2<br>10.2<br>4.9<br>1.3          |
| 72   | Legal cervices   | Ę.                                      | .7                                      | ŤŽ                        | 17   | 20,00  | 8  | 13<br>50                                | -,0                                     | 1.0                                     |  | 1.1  | î.j  | 1.2                       | 12   | iãj                                 |
| 78<br>14   | Other 1  | 7                                       | .2<br>.8                                | 3                         | 1.0  | 1.1  | 12   | เลื                                     | 1.5                                     | 1.7                                     | 2.0  | 2.8  | 25   | 2.8                       | <b>ร</b> :เ  | 1.5                                 |
| 76   | Residential  | 341.5                                   | 358.7                                   | \$73.0                    | \$95.6   | 413-0  | 428.6  | 4469                                    | 482.9                                   | <b>485</b> .B                           | \$04,8                                       | 821,7  | 5122   | 564.8                     | \$83.5   | 902.5                               |
| 76<br>77   | Paral catata   | 24.8<br>976.7                           | 25.3                                    | 25.8                      | 26,1   | 26.2   | 26.1<br>402.6                                  | 25.0<br>416.9                           | 25.3<br>437.3                           | 25.4<br>489.2                           | 25.2<br>479.6                                | 24.8<br>496.8                                      | 24.8<br>617.7                                      | 24.2                      | 28.6   | 23.6<br>578.8                       |
| -"-  | Real estate  | 816.7                                   | 3 <b>3</b> 8Â                           | 847.Ż                     | 369.7  | 386.9  | 602.6  | 41073                                   | 441-2                                   | 444.2                                   | 619.6  | 174.5  | 61 (14   | 340.8                     | 0.094  | 0,43                                |

Entimates are as of the and of the year.
 Constete of social services, membership organizations, and miscellaquous professional services.

Nonresidential and Residential, by Industry, 1947-81

1972 dollare]

| 1 | 1962   | 1863   | 1964  | 1968  | 1968   | 1967  | " 19 <b>43</b>   | 1969  | 1970  | 1971  | 1972   | 1978   | 1974   | 1975   | 1976  | 1977  | 1978   | 1979  | 1990   | 1981  | Lime   |
|---|--|--|---|---|--|---|--|---|---|---|--|--|--|--|---|---|--|---|--|---|--|
| i | 1.249.9  | 1,299.0  | 1,549.9   | 1.447.1   | 1,472.4  | 1,512.5   | 2,597.4  | 1,668.6   | 1,722.5   | 3,765.8   | 1,861,0  | 1,950.4  | 2.015.0  | 2,450.9  | 2,101.4   | 1,366.2   | 2,2147   | 2,528.7   | 2,3523   | 2.455.3   | 1  |
|   | 638.2  | 638.5  | 866.5   | 709.0   | 166.7  | 794.5   | <b>638</b> .1  | 882.2   | 921.6   | 551.3   | 89L#   | 1,649.2  | 1,086.2  | 1,102.5  | £,135.4   | 1,110.6   | 1,2187   | 1,271.0   | 1,316.7  | 1,252.0   | 2  |
|   | 44.5   | 45.5   | · 65.7  | 48.5  | 60.5   | F3.6  | 54.3   | 55.6  | 57.3  | 58.8  | 59.0   | 42.6   | <b>6</b> 5.4   | 46.6   | 71.8  | 74.9  | 78.6   | <b>91.9</b>   | 61.9   | 82.0  | 3  |
|   | 41.9<br>2.4  | 42.9<br>2.5  | . 439<br>27   | 45.0<br>2.9   | 175  | 19.6  | 81.0<br>8.2  | 52.8<br>3.8   | 83.6<br>8.7   | 54.9<br>3.0   | .55.8<br>41  | 58.6<br>4.2  | 614  | 64.2   | 67.2<br>4.5   | 70,5<br>4.8   | 73.4<br>5.2  | 76.3<br>5.6   | 17.0<br>6.8  | 76.8<br>6.1   | <b>1</b>   |
|   | 43.0   | 43.6   | 45.3  | 47.4  | 16.6   | 49.2  | 49.7   | 54.4  | 50.3  | \$4.1   | 58.0   | 20.5   | 81.0   | 62.0   | 57-1  | 35.5  | 58.2   | 41.4  | 66.0   | 69.5  | 8  |
| إ | 3.1<br>1.9<br>26.3<br>1.7  | 3.2<br>2.0<br>36.7<br>1.8  | 37.8<br>20  | 2.1<br>38.9<br>2.8  | 56<br>88'8<br>55   | 41<br>22<br>40.5  | 4.8<br>2.5<br>40.0<br>9.0                                    | 2.6<br>40.2<br>8.1  | 2.8<br>29.8<br>89.8<br>8.1                                | 4.7<br>8.1<br>99.0<br>3.2   | 8.6<br>28.4  | 5.9<br>8.7<br>26.3   | 86.2<br>3.5  | 5.5<br>4.3<br>38.6<br>8.6  | 6.7<br>4.6<br>38.9<br>8.7   | 6.0<br>6.0<br>40.1<br>1.8                                       | 6.8<br>6.1<br>41.8<br>4.0  | 6.6<br>43.8<br>4.1  | 7.9<br>6.6<br>46.5   | 7.6<br>7.1<br>50.4  | į  |
|   |  | 1  | l   | ]   |  | 28  | 1  | l   | ,   | ,   | 88.4<br>8.3  | 36.3   | 1  |  | l   | 1   | 1  | •   | 4.2  | u   | 19   |
| 3 | 10.5<br>142.5  | 141.0 .  | 152.2   | 13.3<br>762.3   | 177,4  | 196.1   | 15.#<br>380.#  | 14.3  | 219.9   | 284.2   | 18.4<br>230.2  | 237.3  | 21.9   | 12.1<br>385.5  | 22.2  | 273.0   | 24.2   | 291.6   | 25.6<br>306.5  | 25.3<br>337.5   | 11   |
| ŀ | 76.4   | 77.7   | 81.4  | 87.8  | <b>8</b> 8.8   | 104.8   | 110.4  | 1166  | 12[.6   | 128.2   | 125.2  | 139.3  | 136.6  | 139.3  | 141.9   | 147.0   | 159.3  | 160.3   | 167,6  | 175.5   | 13   |
|   | 3.4<br>1.0<br>7.0<br>21.5<br>7.8<br>11.0<br>6.6<br>8.8<br>5.0<br>2.5 | #.6<br>1.1<br>7.1  | 3.6<br>11<br>7.8<br>28.9<br>8.6<br>11.5<br>7.2<br>9.6<br>8.4<br>2.1 | 89<br>12<br>79<br>214<br>92<br>128<br>81<br>169<br>23<br>17             | 4.2<br>1.3<br>8.4<br>25.4<br>10.0                                  | 4.8<br>1.5<br>8.5<br>28.3<br>11.0   | 4.4<br>1.6<br>8.6  | 4.7<br>1.7<br>9.0   | 1.7<br>1.7<br>9.2   | 128.2<br>5.0<br>1.8<br>9.3  | 125.2<br>5.4<br>1.9<br>27<br>125.3<br>13.7<br>18.9<br>14.1<br>15.8<br>4.1<br>2.4 | 139.5<br>5.7<br>2.1<br>10.2  | 6.2<br>2.2<br>10.6   | 64<br>222<br>109<br>245<br>156<br>220<br>162<br>151<br>22<br>48  | 6.6<br>2.2<br>10.9  | 58<br>22<br>11.8<br>16.7<br>24.1<br>15.3<br>17.3<br>15.3        | 7.1<br>2.3<br>11.8<br>36.2<br>17.4<br>26.3<br>18.0<br>16.1<br>2.3<br>6.3 | 160.3<br>7.3<br>2.4<br>12.1<br>38.7<br>18.0<br>28.7<br>19.2<br>16.8 | 7.4<br>2.4<br>12.5<br>37.6<br>18.6<br>31.2<br>21.0<br>17.4<br>11.0 | 176.5<br>7.2<br>9.5<br>12.5<br>87.4<br>19.4<br>34.1<br>22.7<br>19.0<br>11.5 | 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>22<br>22<br>24 |
| 1 | 7.8<br>11.0  | 28.0<br>8.0<br>11.2  | 221.5<br>8.6<br>11.5  | 9.2<br>9.2<br>12.8  | 26.4<br>16.0   | 28.8<br>11.0<br>15.7  | 30.6<br>11.7<br>16.8<br>11.4<br>12.8<br>8.0<br>3.3<br>2.0    | 31.2<br>12.6<br>17.6<br>12.9<br>13.6<br>8.6<br>8.5<br>8.1 | 27.1<br>13.0<br>18.1<br>13.1<br>14.1<br>8.9<br>3.3<br>2.2 | 13.3<br>18.4  | 13.7<br>18.0   | 32.4<br>14.4<br>19.7   | 83.6<br>16.1<br>16.1<br>15.5<br>9.1<br>4.6<br>2.6                        | 34.5<br>15.6<br>27.0   | 35.1<br>10.0<br>22.9<br>16.5<br>14.8<br>9.4<br>4.9<br>2.7   | 16.7<br>34.8  | 36.2<br>17.4<br>26.3   | 38.7<br>38.0<br>28.7  | 18.6<br>31.2   | 19.4<br>34.1  | 118  |
|   | 66   | 6.8<br>9.2   | 7.2<br>9.6  | 8.1<br>16.9   | 11.9   | 10.4<br>12.4  | 11.4<br>12.8   | 123<br>135  | 18.1<br>14.1  | 14.6  | 14.1   | 14.4<br>19.7<br>16.0<br>16.2<br>8.9<br>4.3<br>2.5  | 16.1<br>15.5   | 16.2<br>15.1   | 16.5<br>14.8  | 17.1<br>15.3  | 18.0<br>16.1   | 19.2<br>16.8  | 174  | 22.7<br>15.0  | 20   |
|   | 20<br>1.5  | 11.3<br>6.8<br>9.2<br>5.2<br>2.0<br>1.5                                    | 21<br>1,6   | 2.3<br>1.7  | 14.1<br>9.8<br>11.9<br>6.7<br>2.6<br>1.8                           | 10.4<br>12.4<br>7.5<br>8.0<br>1.9   | 3,3<br>2,0   | \$.5<br>8.1   | 22<br>22  | 13.6<br>14.6<br>8.8<br>3.9<br>2.2                                       | 41<br>24   | 4.3<br>2.5   | 46<br>26   | 42   | 4.9<br>2.7  | 81<br>29  | 63   | \$46<br>\$46  | 59<br>11   | 6.4<br>8.1  | 23<br>24   |
| H | 68.6<br>18.7   | 67.2<br>16.3   | 69.8<br>16.6  | 74.6<br>17.2  | 80.8<br>18.9   | 85.7<br>18.7  | 90.0<br>19.2   | 94.3<br>19.8  | 98.2<br>20.4  | 101,0<br>20.0   | 104.D<br>21.B  | 107.0<br>22.2  | 1120<br>228  | L16.3<br>22.4  | 120.9<br>24.2   | 126.0<br>25.0   | 130.2<br>35.8  | 134.1<br>26.4   | 137.9<br>27.1  | 141.6<br>27.8   | 25<br>26   |
|   | .6<br>4.7<br>1.0<br>6.8<br>4.4<br>15.8<br>11.1                       | 4.7<br>1.2<br>9.0<br>4.6<br>16.4   | 16.6<br>4.9<br>1.8<br>9.4<br>4.7                                    | 74.6<br>17.2<br>7.7<br>5.2<br>1.4<br>10.2<br>5.0<br>19.1<br>11.8<br>3.9 | 6.0  | 63<br>1.7<br>120<br>60<br>329<br>121<br>4.6   | 8.<br>6.6  | 7.5   | 7.2   |   | 21.8<br>1.9<br>7.9<br>2.5<br>13.4<br>7.6<br>28.1<br>14.5<br>6.7                  | 1.1<br>8.2<br>2.6<br>13.6<br>7.9<br>28.9<br>14.8<br>7.2                                    | 228<br>11<br>84<br>27<br>143<br>81<br>31,0<br>15,2<br>7,7                | 1163<br>224<br>12.<br>83<br>27<br>150<br>81<br>821<br>160<br>7,7 | 1.2<br>8.3<br>2.7<br>15.6<br>8.2<br>35.3<br>16.9<br>7.8   | 25.0<br>1.3<br>8.8<br>2.8<br>16.8<br>8.5<br>37.8<br>17.8<br>8.1 | 1.4<br>8.3<br>2.5<br>17.1<br>8.9<br>89.4<br>17.5<br>8.4                  | 1.4<br>8.2<br>2.8<br>18.0<br>9.3<br>40.4<br>18.2<br>8.7             | 27.1<br>1.6<br>9.1<br>2.6<br>19.0<br>9.8<br>41.8<br>18.8<br>7      | 141.6<br>27.8<br>1.9<br>8.0<br>2.9<br>19.4<br>10.2<br>42.6<br>20.0<br>8.9   | 25<br>25<br>25<br>28<br>29<br>20<br>31<br>32<br>34<br>34<br>34 |
|   | 68   | 9.0<br>4.6   | 9.4<br>4.7  | 10.2<br>5.0   | 113<br>55  | 120<br>60   | 12.4<br>6.3  | 12.6<br>6.7   | 13.2<br>7.0   | 18.3<br>7.8   | 13.4   | 13.6   | 14.3<br>81   | 150<br>81  | 18.6<br>8.2   | 16.8<br>8.5   | 17.1   | 18.0<br>9.3   | 19.0<br>9.8  | 19.4<br>10.2  | 30<br>31   |
| 1 | 11.1   | 10.4<br>11.1<br>8.2<br>.5  | 17.3<br>11.0<br>3.5   | 111.3   | 1.6<br>11.2<br>5.5<br>91.8<br>11.6<br>4.3                          | 121   | 6.6<br>12.4<br>12.4<br>6.3<br>12.7<br>6.3                    | 2.0<br>12.6<br>6.7<br>25.5<br>13.2<br>5.8                 | 7.2<br>2.1<br>13.2<br>7.0<br>78.8<br>13.8<br>6.1          | 7.4<br>22<br>183<br>7.8<br>27.7<br>143<br>63                            | 25.1<br>14.5<br>6.7  | 14.8<br>7.2  | 15.2<br>15.2   | 16.0<br>7.7  | 30.3<br>16.9<br>7.8   | 17.8<br>17.8  | 17.5<br>8.4  | 40.4<br>18.2<br>8.7   | 18.8<br>8.8  | 20.0<br>8.9   | 3#<br>34   |
| 1 | .5<br>1992   | .5<br>206.2  | 3.5<br>3.0.6  | .6<br>2,18,5  | .5<br>228.8  | .6<br>238.9   | .š .<br>250.7 '  | .6<br>263.5   | .6<br>275.2   | .7<br>285.7   | .7<br>296.4  | .7<br>812.3  | .7<br>325.2  | <b>1112.</b> B   | .7<br>139.9   | 358.1   | .7<br>364.1  | .7<br>579.7   | .T<br>899.0  | 8.<br>8.684   | 85<br>85   |
| ı | - 1  | [  | 59.4  | 70.8  | 711.2  |   | 777  | 1   |   |   |  | . '  | · ·  | · '  |   | 1   | 1  | 1   | 1 .  | •   | l  |
| 1 | 60.8<br>35.0<br>2.9<br>8.4<br>7.1<br>6.2<br>4.9<br>3.8               | 58.9<br>35.4<br>2.8<br>9.0<br>7.1<br>5.2<br>5.0                            | 35.1<br>2.9<br>10.1<br>7.1<br>5.6<br>5.1<br>3.7                     | 85.1<br>2.8<br>10-2   | 75.4<br>2.8<br>10.5<br>7.3<br>7.4<br>5.0<br>4.7                    | 76.1<br>35.0<br>2.7<br>10.5   | 24.4<br>26<br>10.9<br>7.7                                    | 80.6<br>84.2<br>2.5<br>91.6<br>8.1<br>12.2<br>8.6<br>6.4  | 81.6<br>33.2<br>2.4<br>12.0<br>8.5<br>12.9<br>5.6         | 821<br>327<br>24<br>126<br>88<br>129<br>69                              | 83.1<br>81.9<br>2.8<br>13.6<br>9.3<br>13.1<br>5.9<br>7.1                         | 86.8<br>31.8<br>2.8<br>16.3<br>10.1<br>13.6<br>8.0   | 68.1<br>31.6<br>22<br>16.4<br>10.4<br>13.6<br>8.3<br>7.5                 | 88.7<br>31.1<br>2.2<br>16.4<br>11.0<br>13.2<br>7.3<br>7.5        | 90.1<br>30.4<br>2.2<br>17.2<br>11.6<br>12.6<br>8.8  | 91.2<br>10.5<br>18.2<br>18.2<br>12.2<br>9.2<br>7.3              | 94.8<br>91.1<br>5.8<br>19.7<br>12.5<br>12.0<br>9.2<br>7.5                | 97.1<br>31.3<br>2.3<br>20.0<br>13.3<br>12.5<br>9.2                  | 98.4<br>31.8<br>2.8<br>21.3<br>13.8<br>12.8<br>9.2<br>7.8          | 98.1<br>28.8<br>21.2<br>14.5<br>13.4<br>9.2<br>1,7                          | 37<br>38<br>39<br>40<br>41<br>42<br>43<br>44                   |
| ۱ | 62<br>49   | 7.1<br>5.2<br>5.0  | 7,1<br>5,6<br>5,1   | 40<br>43<br>45<br>103   | 7.5<br>7.4<br>50   | 7.4<br>83<br>52<br>64   | 7.7<br>10.9<br>6.5<br>6.8                                    | 8.1<br>12.2<br>5.6  | 12.0<br>5.5   | 12.9<br>5.8   | 9.3<br>13.1<br>5.9   | 10.1<br>13.5<br>8.0  | 10.4<br>13.6   | 11.0<br>11.2<br>7.3  | 11.6<br>12.5  | 12.9<br>12.2<br>9.2   | 12.5<br>12.0<br>9.8  | 133<br>125<br>72  | 13.8<br>12.8<br>9.2  | 16.5<br>18.4<br>9.2   | 42<br>43   |
| ١ |  | 3.4  |   | 4.1   | 4.7<br>54.2  | 57,s  |  |   | 6.1   |   | -  | 7.2  |  |  | 7.4   |   | 7.5<br>107.6   | 7.6   | L  | l i I   |  |
|   | 41,2<br>89.8<br>2.8  | 44.2<br>41.7<br>2.5  | 16.9<br>14.2<br>2.7   | 50.4<br>17.5<br>2.9   | 51.0<br>3.2  | 54.1<br>9.5   | 61.3<br>57.6<br>3.7  | 63.8<br>61.9<br>1.9                                       | 71.1<br>61.0<br>4.1                                       | 75.5<br>71.3<br>4.3   | 79.4<br>75.0<br>4.6  | 86.0<br>20.3<br>4.6  | 90.2<br>85.4<br>4.8  | 98.2<br>88.4<br>6.9  | 96.0<br>96.8<br>6.1   | 101.0<br>95.7<br>5.8  | 102.0  | 116.7<br>109.9<br>8.8   | 129.0<br>116.8<br>6.1  | 128.5<br>123.1<br>6.5   | 45<br>46<br>47   |
|   | 89.9<br>68.2<br>82.8<br>2.8  | 92.1<br>65.2<br>24.0   | 94.4<br>66.9<br>84.5  | 97.4<br>69.3<br>25.8  | 101.5<br>72.1<br>86.4  | 106.2<br>16.0<br>27.2<br>8.0  | 111.7<br>80.8<br>28.7<br>3.1                                 | 117.1<br>64.0<br>29.6<br>3.2                              | 122.6<br>88.7<br>89.6                                     | 127.6<br>53.3<br>30.9<br>8.5  | 183.8<br>28.6<br>31.4  | 141.0<br>105.0<br>38.2   | 146.8<br>110.6<br>\$2.5  | 180.9<br>114.8   | 153.7<br>118.2<br>31.7  | 157.9<br>122.8<br>\$1.4<br>3.9                                  | 162.5<br>127.7<br>\$1.3  | 180.8<br>180.3<br>2L5   | 171.7<br>135.1<br>81.6<br>4.0                                      | 176.1<br>128.9<br>32.1<br>4.0   | 48<br>69<br>51   |
|   | •  | 2-9 ]  | 245<br>29   | 2.9   | \$.0   |   |  | i   | <b>3.</b> 8   |   | 5.6  | 3.7  | 7.8  | 32.8<br>3.8  | 9.9   |   | 40   | 4.0   |  | l 1   |  |
|   | 13.2  <br>\$1.5  | 14-5 (<br>23.5   | 16.2<br>35.0  | 18.1<br>37.5  | 19.8<br>40.9   | 21.4<br>42.4  | 23.3<br>48.9   | 25.1<br>49.4  | 29.8<br>51.5  | 26.3<br>53.3  | 34.1   | 33.6<br>69.7   | 38.4<br>62.7   | 37.5<br>48.9   | 39.3<br>65.7  | 41.4<br>66.3  | 66.2<br>TEO  | 46.6<br>70.0  | 48.0<br>TR.6   | 50.3<br>61.4  | 52<br>53   |
|   | 93.6   | 98.6   | 106.2   | 112.6   | 1215   | I#8.#   | 136.2  | 145.4   | 155.0   | 361.2   | 169,7  | 179.3  | 185.0  | 107.3  | 189.5   | 192.9   | 198.8  | 267.3   | 215.3  | 223.8   | 54   |
|   | 7.2<br>8.4   | 7.7<br>8.6   | 8.4<br>4.1  | 9.1<br>4.7  | 62<br>63   | 19.5<br>6.8   | 11.5<br>6.8  | 124<br>7.7<br>.7<br>38                                    | 18.2<br>6.4   | 14.0<br>9.2   | 16.0<br>9.9  | 16. <b>8</b><br>11.1   | 17.5<br>12.6   | 18.4<br>19.1   | 19.1<br>15.1  | 20.1<br>16.4  | 鶺  | 24.5<br>18.1  | 26.9<br>18.7   | 29.8<br>20.1  | 55<br>58   |
|   | 8.4<br>.4<br>2.1<br>1.0  | 8.6<br>2.2<br>.9<br>88.2   | 4.1<br>25<br>88.2<br>8  | 28<br>1.9<br>91.9   | 53<br>3.0<br>1.0<br>100.8<br>1.8                                   | 6.8<br>.5<br>3.8<br>1.9<br>1.0<br>1.3   | 6.8<br>.6<br>\$.6<br>1.1<br>1.1<br>1.3                       | .7<br>3.8<br>1.1  | 40<br>12  | 14.0<br>9.2<br>4.3<br>1.2<br>180.0<br>1.8                               | 44   | 16.8<br>11.1<br>9<br>4.6<br>1.2<br>142.9<br>2.2  | 17.5<br>12.6<br>.9<br>4.8<br>1.3<br>145.6<br>2.8                         | 60<br>12   | 19.1<br>15.1<br>.9<br>5.1<br>1.4<br>146.3<br>2.5  | 10<br>53  | 19.4<br>1.0<br>5.6<br>1.5<br>148.5<br>2.7                                | 18.1<br>1.0<br>5.9<br>1.6<br>158.3<br>2.8                           | 18.7<br>1.0<br>6.8<br>1.7<br>187.8<br>2.8                          | 20.2<br>1.1<br>6.5<br>1.7<br>162.2<br>2.9                                   | 58<br>57<br>58<br>60<br>61                                     |
|   | 78.9   | 88.2   | 2.88<br>8.  | 94.5  | 1.00.8<br>1.0  | 108.0<br>1.J  | 113  | 128.8<br>1.4  | 18.2<br>6.4<br>.7<br>4.0<br>1.2<br>124.0<br>1.6           | 180.0<br>1.6  | 15.0<br>9.9<br>3<br>4.4<br>1.2<br>196.4<br>2.0                                   | 142.9<br>2.2   | 145.8<br>2.8   | 18.4<br>19.7<br>50<br>1.2<br>145.6<br>2.4                        | 146.3<br>2.5  | 164<br>19<br>53<br>14<br>1452<br>26                             | 148.5<br>2.7   | 15313<br>2.8  | 187.8<br>2.8   | 16 <u>2.2</u><br>2.9  | 61<br>60   |
|   | 35.3   | 42.5   | <b>35</b> .0  | 45.9  | 64-1   | 58.0  | 67.0   | 67.9  | 70.5  | 74.0  | 202  | 88.6   | 89.8   | P9.2   | 91.2  | 92,2  | 91,6   | 98.7  | 102.8  | 108.1   | 42   |
|   | 13<br>47   | 8.3<br>8.4<br>5.8  | 8.8<br>3.6<br>5.6   | 19.1<br>3.9<br>6.8  | 10.B<br>12.  | 4.3<br>9.0  | 122<br>45<br>104   | 12.9<br>4.7<br>11.9                                       | 18.5<br>4.9<br>18.4                                       | 14.1<br>5.1<br>16.5   | 15.0<br>5.4<br>16.5  | 159<br>57<br>184   | 16.8<br>5.9<br>18.7  | 16-2<br>6.0<br>18.3  | 16.1<br>6.0<br>17.8   | 16.6  <br>6.0  <br>17.5   | 16.2<br>6.1<br>27.7  | 18.6<br>8.2<br>19.8   | 16.9<br>6.3<br>21.5  | 64<br>24.5  | 4  |
|   | 62   | 1,0  | 6.8<br>1.1  | 14  | 8.8<br>1-1   | 8.6<br>1.3  | 9.2<br>1.3   | 1110 .<br>[4]   | 10.9<br>1.5   | 10.7<br>1.7   | îĥi  | 12.5   | 18.2<br>2.1  | 18.3<br>8.2  | 19.9<br>2.3   | 14.6<br>24  | 16.3<br>2.6  | 160<br>26   | 16.3<br>2.6  | 167<br>27   | 66<br>51   |
| İ | 112  | فَيْدِ<br>121  | 5.2<br>13.2   | 5.9<br>14.4   | 8.5<br>15.4  | 5.6   | 17,1   | 5.0<br>IB4  | 6.7<br>19.4   | 2.5<br>6.8<br>20.2  | 21.4<br>21.4   | 8.8<br>23.0  | 7.1<br>7.1   | 1.1<br>1.7<br>8.62   | 7.5<br>7.2<br>25.5  | 7.2<br>26.1   | 7.3<br>28.7  | 7.8<br>27.3   | 2,0<br>7.4<br>28.3   | 7.S<br>20.1   | 69<br>70   |
|   | 133<br>472<br>629<br>116<br>114<br>14<br>39                          | 8.3<br>8.4<br>5.8<br>6.4<br>1.1<br>4.9<br>12.1<br>6.9<br>1.4<br>6.6<br>4.8 | 83898122929466<br>6356125929466                                     | 10.19<br>26.54<br>1.75<br>1.75<br>1.75<br>1.75<br>1.75<br>1.75<br>1.75  | 108<br>108<br>108<br>108<br>108<br>108<br>108<br>108<br>108<br>108 | 1.6<br>4.0<br>8.5<br>1.5<br>9.5<br>1.5<br>9.5<br>1.5<br>9.5<br>1.5<br>9.5<br>1.5<br>9.5<br>1.5<br>9.5<br>1.5<br>9.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1.5<br>1 | 122<br>45<br>104<br>9:2<br>1:5<br>17:1<br>9:0<br>17:1<br>8:0 | 14.0<br>1.7<br>6.0<br>18.4<br>9.8<br>1.7<br>.8            | 18.5<br>10.8<br>10.8<br>1.8<br>6.1<br>10.5<br>1.7         | 14.1<br>5.1<br>16.5<br>10.7<br>2.8<br>6.8<br>20.2<br>11.0<br>1.7<br>6.8 | 15.0<br>5.4<br>16.5<br>11.4<br>1.9<br>2.1<br>6.6<br>21.4<br>11.8<br>1.7          | 1597<br>1850<br>1250<br>258<br>258<br>258<br>258<br>258<br>258<br>258<br>258<br>258<br>258 | 168<br>187<br>187<br>182<br>28<br>7.1<br>128<br>128<br>128<br>137<br>138 | 669 1832 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                   | 16.1<br>6.0<br>17.8<br>19.2<br>19.2<br>19.4<br>19.4<br>19.4<br>19.4<br>19.4<br>19.4<br>19.4<br>19.4 | 18.6<br>17.5<br>14.5<br>22.5<br>24.1<br>13.5<br>1.5<br>9.5      | 16.2<br>6.1<br>17.7<br>16.3<br>2.5<br>2.7<br>28.7<br>18.9<br>1.9         | 18.88<br>18.08<br>18.08<br>18.08<br>18.08<br>14.09<br>10.6          | 16.9<br>6.3<br>21.5<br>16.6<br>28.0<br>7.4<br>28.9<br>14.7<br>11.0 | 17.6<br>6.4<br>24.3<br>16.7<br>2.1<br>7.3<br>30.1<br>16.8<br>1.9            | 64 65 657 88 89 70 12 23 74                                    |
| 1 | l  |  |   | - 1   | ,  |   | 1  |   | ,   | 1   |  |  |  |  |   |   |  |   | ' 1  |   |  |
|   | 623.6<br>23.4<br>600.2   | 23.2<br>525.3  | 973.7<br>23.1<br>650.7  | 22.8  | 717.7<br>22.7  | 735.0<br>28.8   | 759.3<br>22.3<br>737.6                                       | 783,3<br>22.2   | 901.8<br>21,8   | 832.5<br>2).7   | 871.6<br>21.5  | 998.3<br>21.3  | 929.7<br>23.5  | 944.1<br>21.3  | 96 <b>6.0</b><br>21.2   | 985.7<br>21.2   | 1,0 <del>25,</del> 9<br>21,3   | 1,067.7<br>21.2   | 1,975,7<br>23.1  | 20.8  | 75<br>76   |
| L | 600.2  | 625.8  | \$50.7  | 22.8<br>675.2   | 22.7<br>695.0  | 28.8<br>7]3.4   | 787.6  | 760.1   | \$1.5<br>T79.9  | 21.7<br>810.8   | 21.5<br>880.2  | 21.3<br>887.9  | 21.5<br>948.2  | 21.3<br>922.7  | M48<br>\$12   | 81.2<br>81.2  | 31.3<br>1,001.6  | 21.8<br>1,088.5   | 27.1<br>1,088.6  | 20.8<br>1,071.6   | 76<br>77   |

# The National Income and Products Accounts of the United States: An Overview

This article presents a summary explanation of BEA's national income and product accounts. It is an expansion of the article that appeared in the October 1979 Survey of Current Business, and it incorporates the results of the recently completed comprehensive revision of the national income and product accounts. An appendix to the article presents the definitions that underlie these accounts. These definitions provide detail that cannot be included in a summary explanation.

THE national income and product accounts (NIPA's) show the economic process—i.e., the production, distribution, and use of output. Although the measurement of production is the function of the NIPA's that is best known, they gained their preeminence as a tool of macroeconomic analysis because, in

addition to measuring production, they present a summary picture of the economic process. The first section of this article explains how production is measured in the NIPA's, and the second section explains how the NIPA's provide a summary picture of the economic process.

#### The Measurement of Production

ABOUT 85 percent of GNP—the most popular measure of the production of the Nation—originates in business. Accordingly, a good way to explain the GNP is to show how the production attributable to a single business unit can be measured. It can be measured in two ways: in terms of products, i.e., goods and services; and in terms of incomes generated in production.

#### GNP as a sum of products

Of all the magnitudes that are observable for a business unit, its sales come closest to its production, but they are not equivalent to it. First, sales fall short of production if some of the unit's production is added to inventories. Conversely, sales exceed production if inventories are drawn down. Second, sales and inventory change of a unit measure not only the production attributable to that unit (also called product originating in, or the value added by, the unit), but also the raw materials, semifinished products, and finished products—more precisely, any

product other than plant and equipment intended for use by the purchasing unit—that the unit purchases from other units. Because these purchases are the production of the other units, they must be deducted from the sum of a unit's sales and inventory change to derive the production attributable to that unit. In NIPA terminology, these purchases are called current-account purchases. (The term "intermediate products" is often used interchangeably with current-account purchases.)

Thus, the production attributable to the business unit can be measured by the following formula:

Value of production = sales + inventory change - current-account purchases.

The next step is to regard GNP as the sum of the production of all the business units that operate in the economy and to examine what happens to the formula if it is so interpreted. Its inventory change component stands. Because the current-account purchases of one unit are the sales of another, they cancel out for the economy as a whole. In an economy like that of the United States, the sales that do not cancel ("final sales") can be seen to consist of (1) sales to consumers, (2) gross fixed investment (the plant and equipment that was omitted from current-account purchases), (3) sales to government, and (4) sales to foreigners—exports. Exports are measured after deduction of imports. Imports are reflected in final sales and also in the inventory change component of the formula. But they are foreign rather than U.S. production, and must be deducted if the aim is to derive a measure of production attributable to the United States.

About 15 percent of GNP originates outside of business. Nonbusiness production includes the services provided by household employees (and by the employees of nonprofit institution), the services provided by government employees, and the services provided to foreigners abroad by factors of production-labor and property-owned by residents of the United States (net of the services provided in the United States by factors of production owned by residents of foreign countries). The first two categories of nonbusiness production are measured by the compensation of employees of households (and nonprofit institutions) and of government. The last category is measured by the net inflow from abroad of employee compensation and-much more important-of property incomes (interest and profits). The household component is treated as a sale to consumers; the government component, as a sale to government; and the foreign component, as a sale to foreigners.

This is a drastically abbreviated explanation of GNP and, at a minimum, requires the following further explana-

First, the reference to business "units" was intentionally ambiguous. On the one hand, units may be establishments (e.g., factories); on the other, they may be firms (enterprises, companies, corporations). The former tend to reflect technologies, the latter tend to reflect financial arrangements.

Second, each of the components of final sales has characteristics that are not obvious. For instance, fixed investment is defined "gross," i.e., no deduction is made for plant and equipment used up in production. Another characteristic of fixed investment is that it covers, in addition to residences bought by business, residences bought by households. Common sense suggests that such purchases are investment rather than consumption.

Third, in addition to monetary transactions, GNP includes "imputations" for certain items of production in kind. These amount to less than 10 percent of GNP. The major items are: wages and saleries in kind, food and fuel produced and consumed on farms, the value of services rendered by owner-occupied residences, and the value of services furnished without payment by financial intermediaries. Each of these imputations is made in order to obtain a better view of total national output and of its distribution. This statement can be 'illustrated by one of the imputations for wages and salaries in kind. If only monetary transactions were taken into account, meals provided free to restaurant workers—unlike meals sold by restaurants-would not appear as part of GNP, and wages of restaurant workers would be understated relative to the wages of workers who receive their wages entirely in monetary form,

#### CNP as a sum of incomes

The second way of measuring GNP is based on a self-evident proposition:

Value of production=costs of production+profits.

To shorten the discussion, the following explanation omits the application of this formula to the single business unit, and applies it directly to business as a whole. When the formula is applied to business as a whole, a major category of costs of a single business unit-currentaccount purchases—cancels out because. as has been explained, the currentaccount purchases of one unit are the sales of another. The costs remaining in the formula fall into four main categories: compensation of employees, net interest, depreciation and other capital consumption allowances, and indirect business taxes. Employee compensation consists mainly of wages and salaries, but includes also employer contributions to social security and private pension and welfare funds. Net interest is interest paid by the business less the interest it receives. Depreciation, etc., represents the cost of plant and equipment used up in production. Indirect business taxes are taxes that can be charged to business expense—for example, sales and excise taxes and business property

The difference between the value of business production and the costs just enumerated is business profits, of which corporate profits is the largest category. Corporate profits are measured before taxes on them. (Corporate profits taxes are not an expense in the strict sense of the word, because, unlike business expenses proper, they cannot be determined before profits are calculated.) The other major profits category is labeled proprietors' income, and covers the incomes of proprietorships and partnerships. The last category of profits, called rental income of persons, is very similar to proprietors' income.

This itemization of costs and profits is applicable to business production. The items used to measure nonbusiness production were enumerated earlier. In measuring GNP as a sum of incomes, these items are combined with corre-

sponding items of business costs and profits.

A graphic summary.—Business and nonbusiness production, and production in terms of products and of incomes, are quantified for 1980 in the upper panel of chart 6.2 The bulk of production is seen to originate in business; out of a total of \$2,629 billion, \$2,224 billion originates in this sector. Production attributable to households accounts for \$86 billion, production attributable to government for \$269 billion, and production attributable to factors of production provided (net) by U.S. residents to foreigners abroad—called rest-of-the-world production-accounts for \$50 billion. Without rest-of-theworld production, the total is called gross domestic product. This total, which is \$2,579 billion, is useful in studies that focus on production attributable to factors of production located in the United States.

The right-hand side of the panel shows production measured in terms of products, and the left-hand side shows production measured in terms of incomes. For the business sector, the distinction between products and incomes is observable in the real world; for the other sectors, only incomes are observable. The sequence of incomes shown for the business sector differs from the costs-profits sequence just described for reasons that will be explained in the next section.

The chart also shows how the sectors' corresponding product items and corresponding incomes items are combined to derive the National Income and Product (NIP) Account, which is shown in the lower panel. For example, sales to persons by business and by consumers are combined to become personal consumption expenditures, and compensation of employees by business, by households, and by government is combined into a total for compensation of employees.

## The national income and product account

The NIP account is shown as account 1 of table 1. On the right-hand side,

There are several systems of economic accounts that, taken together, are commonly called the national economic accounts. One of these systems, the input-output accounts, because it shows how the industries of the Nation Interact to produce the GNP, are based on a technological definition of the business unit. Another system, the detailed saving-investment accounts, because it shows the transactions in the markets that transform saving into investment, are based on a finnacial definition. Inasmuch as the NIPA's may be viewed as the system that summarizes the national economic accounts, they would seem to require both. The establishment-firm dichotomy is one of the most important obstacles to integration within and among parts of the autional economic accounts.

<sup>2.</sup> The estimates shown in chart 8 are those in the January 1981 Sunvey.

GNP is measured as a sum of products. On the left-hand side, it is measured as a sum of incomes. The following points help make the table intelligible.

First, the items "subsidies, etc.," "business transfer payments," and "statistical discrepancy" are new. The first of these can be regarded as negative indirect business taxes. The business transfer payment item includes, in addition to corporate gifts to nonprofit institutions, bad debts incurred by consumers. Sales on the right-hand side of the account include credit sales before defaults; accordingly, bad debts are an element of business cost. They are called transfer payments—a NIPA term that includes incomes of consumers for which they did not render current servicesbecause they are written off rather than collected. Finally, the statistical discrepancy is the GNP measured as a sum of products less GNP measured as a sum of incomes. In theory, the statistical discrepancy should be zero, because profits is a residual—the value of production less the cost of production. In practice, the statistical discrepancy is not zero, because the income and product sides of the NIP account are estimated independently, and given the

imperfection of estimating methodologies-are subject to error.

Second, the terms "inventory valuetion adjustment" and "capital consumption adjustment" are attached to several items on the income side of the NIP account. "Inventory valuation adjustment" is attached to proprietors' income and to corporate profits to signal that, with respect to inventory accounting, even though these two forms of profits are derived from business reports, they are based on the method used in the NIPA's rather than on methods used by business. The NIPA method is to value the change in the physical volume of inventories in the prices of the current period. When the physical volume of an inventory good is unchanged or increasing, this method is identical to the last-in-first-out method. The inventory item included on the product side of the account is also measured using the NIPA method.

"Capital consumption adjustment" is attached to the two profits items just enumerated, and also to rental income of persons and to capital consumption allowances, to signal that, with respect to depreciation accounting, even though the items are derived from business reports, they are based on the method used in the NIPA's rather than on methods

used by business. The method used in the NIPA's is to measure depreciation with uniform service lives and consistent depreciation formulas, and to value it at replacement cost.

Third, the sequence of items on the income side of the NIP account departs from the costs-profits sequence used in ... their explanation. The entries adding up to a total called national income are a combination of items that can be en-+ visaged as the sum of the earnings of the several factors of production. This "factor cost" concept is often used in studies dealing with the allocation of factors of production to various uses. The two additional aggregates that are shown—charges against net national product and charges against GNP-measure production valued at market prices, which include indirect business taxes. Because it is market price that is a the basis for choice among alternative products, market-price valuation is preferable for studies of economic behavior and welfare. Charges against net national product measure the value of production after deduction of capital consumption allowances, and charges 4 against GNP is the income counterpart of the product measure of GNP.

Table 1.—Summary National Income and Product Accounts, 1986 1

(Billions of dollars)

Account 1 .- National Income and Product Account

| Lias  |   |   | Line   | <u> </u>  |   |
|---|---|---|--|---|---|
| 123365597, 8 9 100 112131411518117 18 19 22122 23 24 25 | Employer contributions for scolal insurance (3-20).  Other labor income (3-8).  Proprietors' income with inventory valuation and capital consumption adjustments (2-0).  Rental income of persons with capital consumption adjustment (2-10).  Corporate profits with inventory valuation and capital consumption adjustments.  Profits before tax  Profits tax liability (3-17).  Profits atter tax  Dividents (2-12).  Undistributed profits (5-7).  Inventory valuation adjustment (5-7).  Aptical consumption edjustment (5-8).  Nat interest (2-13).  National income.  Profits its and nontax liability (3-18).  Less: Subsidies less current surplus of government enterprises (3-11).  Charges against net national product.  Capital consumption adjustment (5-9).  2.1  Charges against net national product.  2.2  Charges against net national product.  2.3  Capital consumption adjustment (5-9). | 343.8 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 | 经股票额 计多数数数数 经收益的 医电子性 医电子性 医甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基 | Parsonal consumption expanditures (2-3)  Durable goods  Nondarable goods  Services  Gross private domestic investment (5-1)  Pixed investment  Nonresidential  Structures  Producers' darable equipment  Residential  Change in business inventories  Not exports of goods and services  Exports (4-1)  Imports (4-3)  Covernment purchases of goods and services (3-1)  Federal  National defense  National defense  State and local | 211-6<br>674-6<br>786-2<br>204-9<br>190-9<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1<br>103-1 |
|   | CHARGES AGAINST GROSS NATIONAL PRODUCT  | 526.0                                       |  | GROSS NATIONAL PRODUCT  | ,624.8  |

NOTE.—Numbers in parentheses indicate account; and items of counterentry in the accounts. For example, the counterentry for wage and salary disbursaments, (2-7), is in account 2 to 7. The estimates are those published in the January 1981 Straver or Counters Business.

#### Table 1.-Summary National Income and Product Accounts, 1986 --- Continued

#### [Billions of dollars]

Account 2.—Permusi Income and Outby Account

|                   | Account 2—P  |                        |                      |  |                                       |
|-------------------|--|------------------------|----------------------|--|---------------------------------------|
| ine               |  |                        | Line                 |  |                                       |
| 7                 | Personal iss and nonlike payments (2-15)   | . 338.7                | <u> </u>   7         | Wage and salary dishursaments (1-3)  | . 1,3                                 |
| 2                 |  |                        | 8                    | Other labor income (1-7)   | . 1                                   |
| 8<br>4<br>5       | Personal outlays.  Personal consumption expenditures (1–26)  Interest poid by consumes to business (3–18)  Personal transfer payments to foreigness (net) (4–6)                    | 1,671.1<br>68.5<br>1.1 | 9                    | Proprietors' income with inventory valuation and capital communition adjustments (i-8)   | . 12                                  |
| 0                 | Personal saving (5-8)  | . 108.6                | <b>3</b> 0           | Rental income of persons with expital consumption adjustment (1-9)   | . :                                   |
|                   |  |                        | 11<br>19<br>11<br>11 | Personal dividend income. Dividends (1-14) Legg: Dividends received by government (3-10)   |                                       |
|                   |  |                        | 14                   | Personal interest incuria.   | . 2                                   |
|                   |  |                        | 15<br>18<br>17<br>18 | Net interest (1-18). Interest paid by government to persons and business (3-7). Less: Interest peed by government (3-0). Interest paid by consistences to business (2-4).  | 1                                     |
|                   |  |                        | 19<br>20<br>21       | Transfer payments to persons.  From business (1-26)  From gravaminent (3-5)  |                                       |
|                   |  |                        | 22                   |  |                                       |
|                   | PERSONAL TAXES, OUTLAYS, AND SAVING  | 2, 161, 0              | 22                   | Less: Personal contributions for social insurance (3-21) PERSONAL INCOME.  |                                       |
|                   |  |                        | <u> </u>             | <u> </u>   |                                       |
| ī                 | <u> </u>   |                        | 1                    | Expenditures Account   | _                                     |
| ۱,                | Purchase of goods and services (1-40)  |                        | 10                   | Personal ter and nontar payments (3-1)  Comporate profils tas fiability (1-12)   |                                       |
| ١                 | Transfer payments To persons (2-21) To foreigners (nat) (4-5)  | 291. 4<br>291. 9       | 17                   | Corporate profits as timbility (1-12)  Indirect business tax and neptex limbility (2-21)   |                                       |
| ۱.                | Not interest paid  |                        | 18                   | · · · · · · · · · · · · · · · · · · ·  |                                       |
| ١٩                | Interest paid. To persons and husiness (2-16)  | #1.6<br>85.3           | 10<br>20             | Contributions for social insurance Employer (1-3) Personal (2-22)  |                                       |
| H                 | To beneat the first total for the first (2-17).  Lose Interest received by government (2-17).  | 72.7<br>12.6           | 21                   | 表系统的部 (2-25)***********************************  |                                       |
| 1                 |  |                        | [                    |  |                                       |
| 1                 | Less: Dividends received by government (2-13)  |                        | Í.                   |  |                                       |
| ┇                 | Subsidies less entreut surplus of government enterprises (1-22)  |                        |                      |  |                                       |
|                   | Less: Wags accruais less disbursaments (1-1)   |                        |                      |  |                                       |
|                   | Surplus or deficit (-), nettonal income and product accounts (5-10)  Federal. State and local.   | 6L 6 I                 |                      |  |                                       |
| 1                 | GOVERNMENT EXPENDITURES AND SURPLUS  | ľ                      |                      | GOVERNMENT RECEIPTS  | 1                                     |
| _1                | <del></del>  |                        |                      |  | _                                     |
|                   |  | Foreign '              | Crecou               | done Account   |                                       |
|                   | Actions 4.— Experts of goods and services (1-48).  |                        | Cremou               | Imparts of goods and services (1-30)   | -                                     |
|                   |  |                        | -2                   | Imparts of goods and services (1-38)   |                                       |
|                   | Experts of goods and services (1-48)   | 390.6                  | -3                   | Imparts of goods and services (1-38)   |                                       |
|                   | Experts of goods and services (1-48)   | 390.6                  | -2                   | Emparts of goods and services (1-38)   |                                       |
|                   | Experts of goods and services (1-48)   | 390.6                  | -2                   | Imparts of goods and services (1-38)  Transfer payments to foreignest (not)  From persons (not) (3-6)  From government (not) (3-4)   |                                       |
|                   | Experts of goods and services (1-48)   | 390.6                  | 2 4 6 7              | Imports of goods and services (1-30)  Transker payments to foreigness (net)  From persons (net) (3-6)  From government (net) (3-4)  Interest paid by government to foreigness (3-8)  |                                       |
|                   | Experts of goods and services (1-48)   | 340.6<br>1.1<br>341.7  | 7 8                  | Imports of goods and services (1-30)  Transker payments to foreigness (net)  From persons (net) (2-6)  From government (net) (3-4)  Interest paid by government to foreigness (3-8)  Net foreign investment (3-5)  PAYMENTS TO FOREIGNERS  |                                       |
| :  <br>           | Experts of goods and services (1-48)   | 340.6<br>1.1<br>341.7  | 7 8                  | Imports of goods and services (1-30)  Transker payments to foreigness (net)  From persons (net) (2-6)  From government (net) (3-4)  Interest paid by government to foreigness (3-8)  Net foreign investment (3-5)  PAYMENTS TO FOREIGNERS  |                                       |
| <u> </u><br> <br> | Experts of goods and services (1-38)   | 340.6 11 341.7         | 7 8                  | Imports of goods and services (1-30)  Transfer payments to foreigness (net)  From persons (net) (2-5)  From government (net) (3-4)  Interest paid by government to foreigness (3-8)  Nat foreign investment (3-5)  PAYMENTS TO FOREIGNERS.   |                                       |
| :  <br> <br>      | Experts of goods and services (1-38).  Capital grants received by the United States (net) (5-11).  RECEIPTS PHOM FOREIGNERS.  Account 5.—Gross private demestic investment (1-33). | 340.6<br>1.1<br>341.7  | 7 8                  | Imports of goods and services (1-30)  Transker payments to foreigness (not)  From persons (not) (2-5)  From government (not) (3-4)  Interest paid by government to foreigness (3-8)  Net foreign investment (3-5)  PAYMENTS TO FOREIGNERS  estment Account  Paysonal saving (2-6).  Wage accruais less disbursements (1-4)   | 1                                     |
| :  <br> <br>      | Experts of goods and services (1-38).  Capital grants received by the United States (net) (5-11).  RECEIPTS PHOM FOREIGNERS.  Account 5.—Gross private demestic investment (1-33). | 340.6<br>1.1<br>341.7  | 7 8                  | Imports of goods and services (1-30)  Transker payments to foreigness (not)  From persons (not) (2-5)  From government (not) (3-4)  Interest paid by government to foreigness (3-8)  Net foreign investment (3-5)  PAYMENTS TO FOREIGNERS  estment Account  Paysonal saving (2-6).  Wage accruais less disbursements (1-4)   | 1                                     |
| <u> </u><br> <br> | Experts of goods and services (1-38).  Capital grants received by the United States (net) (5-11).  RECEIPTS PHOM FOREIGNERS.  Account 5.—Gross private demestic investment (1-33). | 340.6<br>1.1<br>341.7  | 7 8 sund Inv         | Imports of goods and services (1-30)  Transfer payments to foreigness (net)  From persons (net) (2-5)  From government (net) (3-4)  Interest paid by government to foreigness (3-8)  Nat foreign investment (3-5)  PAYMENTS TO FOREIGNERS.   | 1                                     |
|                   | Experts of goods and services (1-38).  Capital grants received by the United States (net) (5-11).  RECEIPTS PHOM FOREIGNERS.  Account 5.—Gross private demestic investment (1-33). | 340.6<br>1.1<br>341.7  | 3 4 5 6 7 8          | Imparts of goods and services (1-30).  Transke payments to foreignest (not).  From persons (not) (3-6).  From persons (not) (3-6).  Interest paid by government to foreignest (3-8).  Nat foreign investment (3-5).  PAYMENTS TO FOREIGNERS.  Payment Account  Payment saving (2-6).  Wage accrusis less dishussements (1-4).  Undistributed corporate profits with inventory valuation and expital consumption adjustment (1-15).  Capital consumption adjustment (1-15).   | 11 2                                  |
| <u> </u><br> <br> | Experts of goods and services (1-38).  Capital grants received by the United States (net) (5-11).  RECEIPTS PHOM FOREIGNERS.  Account 5.—Gross private demestic investment (1-33). | 340.6<br>1.1<br>341.7  | 3 4 5 6 7 8 0        | Imparts of goods and services (1-38)  Transke payments to foreignes (net)  From persons (net) (3-5).  From persons (net) (3-5).  From persons (net) (3-5).  Interest paid by government to foreignes (3-8).  Nat foreign investment (3-5).  PATMENTS TO FOREIGNERS.  PATMENTS TO FOREIGNERS.  Undistributed corporate profits with inventory valuation and espital consumption adjustment (1-15).  Capital consumption adjustment (1-17).  Capital consumption adjustment (1-17).  Covernment surphits or deficit (), national income and product accounts   | 11 2                                  |
|                   | Experts of goods and services (1-38).  Capital grants received by the United States (net) (5-11).  RECEIPTS PHOM FOREIGNERS.  Account 5.—Gross private demestic investment (1-33). | 340.6<br>1.1<br>341.7  | 3 4 6 7 8 9 10       | Imparts of goods and services (1-38)  Transke payments to foreignest (net)  From persons (net) (3-6).  From persons (net) (3-6).  Interest paid by government to foreignest (3-8).  Net foreign investment (3-5).  PAIMENTS TO FOREIGNERS.  Parsonal saving (2-6).  Wage accruals less dishursements (1-4).  Undistributed corporate prefits with inventory valuation and empital consumption adjustment (1-15).  Inventory valuation admissment (1-15).  Capital consumption adjustment (1-17).  Capital consumption adjustment (1-17).  Covernment surplus or deficit (), national income and product accounts (3-13). | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

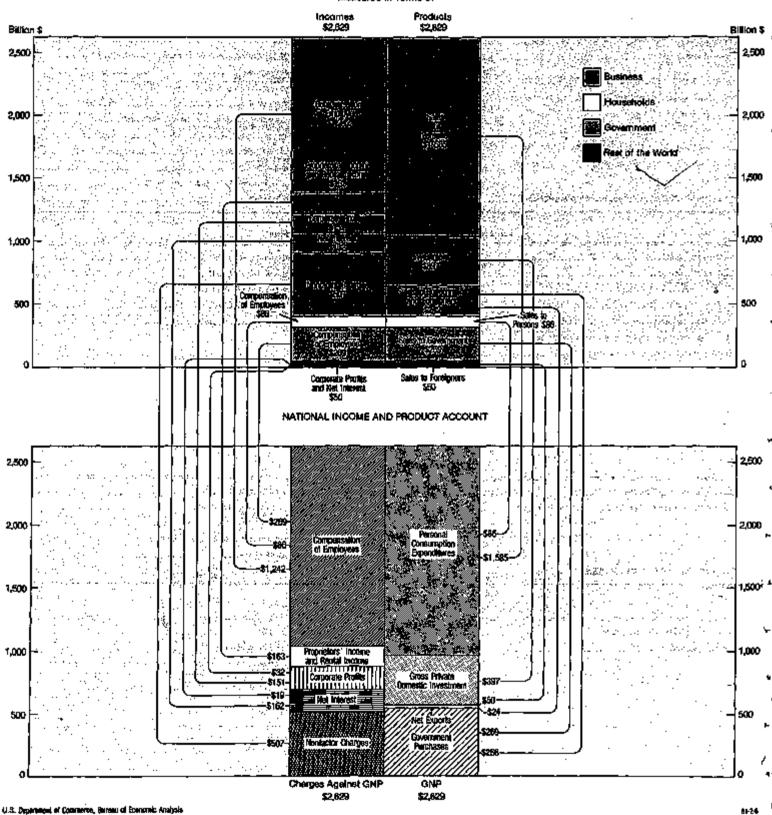
Norm.—Numbers in parentheses indicate accounts and items of counterentry in the accounts. For example, the counterentry for wage and salary disjursaments, (2-7), is in account 2, i.e. 7. The estimates are those published in the January 1961 Souvey of Connect Business.

CHART 6

## Derivation of the National Income and Product Account, 1980

#### PRODUCTION ORIGINATING, BY SECTOR

#### Measured in Terms of



## A Picture of the Economic Process

THE sketch of the first function of the NIPA's—the provision of measures of the total output of the Nation—has been completed. An explanation of their second function—the provision of a picture of the economic process in terms of the production, distribution, and use of output—is taken up next.

Inspection of the NIP account shows that it provides considerably more than a product and an income measure of total GNP. In addition, it provides important clues to the distribution and use of GNP. For instance, it shows the part of GNP that goes to consumers ("persons" in the NIPA's, to indicate that nonprofit institutions and a few other entities are merged with households proper). It also shows, on the left-hand side of the account, many of the incomes-for instance, wages and salaries-that parsons receive and use to purchase goods and services. In other words, the NIP account shows many of the elements that are necessary for a comprehensive accounting of the distribution of GNP to, and the use of it by, persons—one of the major economic groups distinguished in the NIPA's because these groups determine the working of the economy. But the picture is incomplete. The NIP account does not show all the income receipts of persons: for instance, old-age and unemployment benefits and other transfer payments received from government are not shown. Nor does it show individual income and other personal taxes, or personal saving.

A similar situation holds for the other major economic groups, government and foreigners: The NIP account shows some but not all of their receipts and expenditures.

Finally, information is incomplete for the part of GNP that is saved and invested. The NIP account shows the part of GNP that is invested domestically, but not foreign investment. Among the forms of saving that make investment possible, only business saving (undistributed corporate profits and capital consumption allowances) is shown.

Recognition of these gaps in the information relating to the distribution and use of the GNP suggests a way in which these gaps can be filled: Accounts are established for persons, government, and foreigners to record systematically all the receipts of these groups and the disposition they make of these receipts, and an account is established for the several forms of domestic saving these groups generate and the investment their saving makes possible. These accounts are shown as accounts 2 through 5 in table 1. They do not involve a calculation of profit or loss, as does the NIP account, because they are receipt and expenditure accounts—unlike the NIP account, which is fashioned after a business income statement. Also, there is a difference between the personal, government, and foreign accounts on the one hand, and the saving-investment account on the other. The former refer to economic groups. The latter cuts across them and shows the saving and investment transactions of all domestic дтоцра,

The remaining task is to fill in accounts 2 through 5. First, counterentries to the transactions that appear in the NIP account are made in the appropriate accounts. For instance, personal consumption expenditures, which are a receipt in the NIP account, appear as a disposition of receipts in the personal income and outlay account. Second, the accounts are completed by filling in transactions not yet encountered—transactions that occur between two of these accounts. These new entries are explained below.

#### Personal income and outlay account

In the personal income and outlay account, several new items are encountered on the receipts side: dividends received by government, interest paid by government to persons and business less interest received by government, interest paid by consumers to business, transfer payments to persons from government, and personal contributions for social insurance. Dividends received by government is encountered because it

must be subtracted from the dividend total in the NIP account to derive personal dividend income.

The interest items are encountered as part of a presentation that replicates the methodology of deriving personal interest income from the net interest item in the NIP account. This derivation is seen most easily in algebraic form. If interest is paid (p) and received (r) by business (B), by persons (P), by government (G), and by foreigners in transactions with the United States (F), then:

$$B_{p} + P_{p} + G_{p} + F_{p} = B_{r} + P_{r} + G_{r} + F_{r},$$
and
$$P_{r} = (B_{p} - B_{r}) + (F_{p} - F_{r}) + G_{p} - G_{r} + P_{p}.$$

Inasmuch as  $(B_p - B_r) + (F_p - F_r)$  is the net interest item in the NIP account, it can be seen that personal interest income equals net interest plus interest paid by government less interest received by government plus interest paid by persons. The differences between the terminologies used in the algebraic formulation and in the personal income and outlay account mainly reflect classificational features of the NIPA's.

Transfer payments by government to persons consists of social security and unemployment insurance benefits, veterans' pensions, and other items paid by government to persons for which the latter do not perform current services. Personal contributions for social insurance consists of contributions of employees and the self-employed to social security and similar government plans.

On the disposition side of the account, the new items are personal taxes, interest paid by consumers to business, personal transfer payments to foreigners, and saving. Personal taxes consists of

<sup>8,</sup> These differences relate to Gp and Pp. "Interest puld by government to persons and hosiness" is used instead of G. to indicate that interest paid by government to foreigners is handled separately. Such payments are not regarded as payments for services produced by property supplied by foreigners to the United States, and are therefore excluded from production in the rest of the world (and bence niso from the NIP account). "Interest paid by consumers to business" is used instead of Po to indicate (1) that interest paid by nonprofit institutions is excluded (it is included in the business component of "net interest"), (2) that mortgage interest paid is excluded (it also is included in the business component of "act interest"), and (3) that it is assumed that consumers pay interest only to business.

the individual income tax and other taxes paid by persons that cannot be charged to business expense. Interest paid by consumers to business consists of interest paid by individuals in their capacity as consumers. Transfer payments to foreigners consists of remittances and other gifts in cash and in kind made by U.S. persons to residents of foreign countries. Finally, saving is the difference between personal income and the outlays listed on the disposition side of the account.

## Government receipts and expenditures account

The government receipts and expenditures account, which can be regarded as a budget statement within the framework of the NIPA's, shows three new items: transfer payments to forsigners, interest paid to foreigners, and surplus or deficit. Government transfer payments to foreigners consists of nonmilitary grants in each and in kind made to foreign reations and of transfer payments to former residents of the United States. Interest paid to foreigners consists of interest paid by the U.S. Government to foreign business, governments, and persons. The government surplus or deficit is the difference between government receipts expenditures.

#### Foreign transactions account

The foreign transactions account, which is an embryonic balance of payments statement for the United States. shows two new items; net foreign investment, and capital grants received by the United States. The latter consists mainly of allocations of Special Drawing Rights to the United States by the International Monetary Fund. Net foreign investment is the increase of U.S. claims on foreigners less the increase of foreign claims on the United States. U.S. exports give rise to claims on foreigners, as do capital grants received by the United States, U.S. imports, tarnsfer payments paid to foreigners, and interest paid by government to foreigners give rise to foreign claims on the United States.

#### Gross saving and investment account

There are no new entries in the gross saving and investment account. This

account exhibits the well-known ex post equality of total saving and total investment.

#### Estimates Supporting the Summary NIPA's

THE figures shown in table 1 are only the tip of the iceburg. Information is available not only for years but also for quarters and, in the case of personal income and its disposition, for months. For most annual information, the period since 1929 is covered; for most quarterly and monthly information, the post World War II period is covered. For GNP and its product components, current-dollar measures, such as those shown in table 1, are separated into "real" measures—i.e., measures from which price change has been eliminated—and measures of price change. Finally, most of the items shown in table 1 are available in much greater detail. For instance, annual estimates of personal consumption expenditures are broken down into about 100 types of expenditures, and annual and quarterly estimates of government receipts and expenditures are shown separately for the Federal Government and for State and local governments.

Major measures of production and income.—Four widely used measures of production and income—GNP, national income, personal income, and disposable personal income—are shown in chart 7 for 1980.4 GNP and national income are comprehensive measures of production. In the chart, the difference

between them is separated into capital consumption and indirect business taxes, etc.; the latter makes up the difference between the market-price and factor-cost valuations.

Personal income is sometimes used as a proxy measure of production because it is available for regions of the Nation and because the national measure is available monthly. It differs from production because it excludes some incomes that represent production but are not distributed to persons-for example, social security taxes and undistributed corporate profits-and includes some incomes that do not represent current production-for example, transfer payments. Because, especially in the short run, some of these incomes do not follow the course of total production, the proxy is imperfect. In the chart, the former is shown as what is subtracted, and the latter as what is added, in order to derive personal income from national income.

Personal income and its disposition—taxes, outlays, and saving—are useful in their own right, especially because persons are the largest among the economic groups whose interaction determines the working of the economy: Persons receive most of the income, account for the single largest share of taxes, give rise to the bulk of the demand for GNP, and contribute substantially to the saving that finances investment.

## Appendix: Definitions Underlying the National Income and Product Accounts

#### Definitions of NIPA Entries

Income and product aggregates are defined below, and their definitions are amplified by definitions of their major components. Aspects of the aggregates and their major components that are not apparent from their titles are emphasized.

The definitions are presented in the framework of the five-account summary of the national income and product accounts (NTPA's) shown in table 1. Each entry has a counterentry, generally in another account. The parenthetical numbers that follows an entry in table 1 identify the counterentry by account and line number.

<sup>4.</sup> The estimates above in chart 7 are those published in the January 1981 Sunysy.

CHART 7

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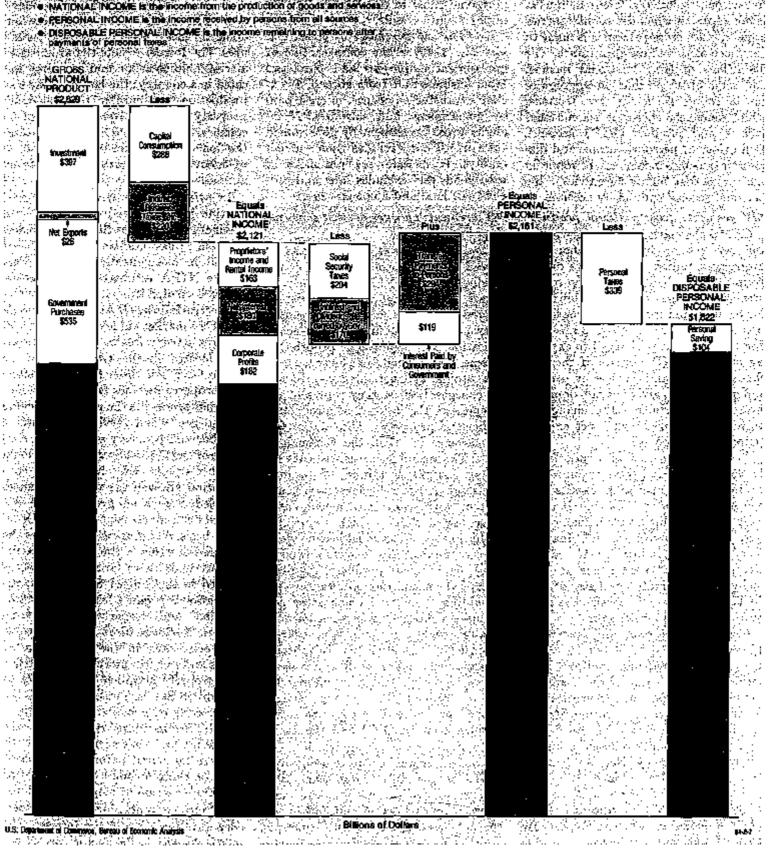
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Drama Watsure Statista

#### Major Measures of Production and Income. 1980

Hickory and an executive director.

- GROSS NATIONAL PRODUCT is the merest value of goods and services produced
   NATIONAL INCOME is the income from the production of goods and services.
- e, RERIGONAL INCOME is the income received by parsons from all sources



With the exception of major income and product aggregates, entries are usually defined in this appendix in the sequence in which they appear in the five-account summary. Their definition is not repeated when the counterentries appear, but a cross-reference is made to the place of their first appearance. The definitions of GNP, national income, and some other production aggregates can be found in the first two sections, which define the entries in the national income and product (NIP) account. Definitions of personal income and disposable personal income can be found in the section that defines the entries in the personal income and outlay account.

#### MP account: gross national product

GNP is the market value of the goods and services produced by labor and property supplied by residents of the United States, before deduction of depreciation charges and other allowances for business and institutional consumption of fixed capital goods and after deduction of products charged to expense by business. GNP consists of the purchases of goods and services by persons and government, gross private domestic investment (including the change in business inventories), and net exports (exports less imports).

Personal consumption expenditures (1-26) is goods and services purchased by individuals, operating expenses of nonprofit institutions serving individuals, and the value of food, fuel, clothing, rent of dwellings, and financial services received in kind by individuals. Net purchases of used goods are also included. All private purchases of residential structures are classified as gross private domestic investment.

Gross private domestic investment (1-80) is fixed capital goods purchased by private business and nonprofit institutions, and the value of the change in the physical volume of inventories held by private business. The former include all private purchases of residential structures whether purchased for tenant or owner occupancy. Net purchases of used goods are also included.

Net exports of goods and services (1-38) and (1-39) is exports less imports of goods and services. Exports are part of national production. Imports

are not, but are included in the components of GNP, and are therefore deducted. There are differences between the NIPA measures of exports and imports and those in the detailed balance of payments accounts.

Government purchases of goods and services (1-40) is the compensation of government employees and purchases from business and from abroad. It excludes transfer payments, interest paid by government, and subsidies. It includes gross investment by government enterprises, but excludes their current outlays. It includes net purchases of used goods and excludes sales and purchases of land and financial assets.

#### NIP account: charges against gross national product

Charges against ONP is the costs incurred and the profits earned in the production of GNP. Accordingly, it equals GNP, except for the statistical discrepancy. These charges are arranged in two groups. The first of these-compensation of employees, proprietors' income, rental income of persons, corporate profits, and net interest-are factor charges, because they represent the incomes of the factors of production (labor and property). The total of factor incomes is called the national income. The second group consists of nonfactor charges. Addition of business transfers, indirect business taxes, and current surplus of government enterprises less subsidies—which are included in this group—to national income yields charges against net national product (and net national product). Addition of capital consumption allowances-the remaining item in the nonfactor cost group—to charges against net national product yields, in principle, charges against GNP (and GNP). In practice, mensurement errors result in a statistical discrepancy, which is entered between national income and charges against net national product to secure balance between GNP and the factor and nonfactor charges against it.

The aggregates that have been enumerated so far differ from each other because of distinctions that are made between market value and factor cost concepts, and gross and net concepts. GNP as derived above is a gross market

value measure; national income is a net factor cost measure; and net national product is a net market value measure. One further basic distinction can be made in defining the value of production. This is the distinction between domestic measures and national measures. The former denote the production attributable to labor and property located in a country; the latter denote the production attributable to labor and property supplied by residents of a country. The national measures exceed the domestic measures by the net inflow of labor and property incomes from abroad.

In principle, eight measures of production can be derived from these three distinctions. Three of them are included in table 1; two additional ones are included in more detailed presentations of the NIPA estimates. GNP has already been defined. Definitions of the other five follow. Gross domestic produot is the market value of the goods and services attributable to labor and property located in the United States. It equals GNP less the net inflow of labor and property incomes from abroad. Net national product is the net market value of the goods and services attributable to labor and property supplied by residents of the United States. Net national product counts GNP less capital consumption allowances; these allowances are deducted from gross private domestic fixed investment to express it on a net basis. Net domestic product is the net market value of the goods and services attributable to labor and property located in the United States. It equals net national product less the net inflow of labor and property incomes from abroad. National income is the income that originates in the production of goods and services attributable to labor and property supplied by residents of the United States. Thus, it measures the factor costs of goods and services produced. Incomes are recorded in the forms in which they accrue to residents. and are measured before deduction of taxes on those incomes. They consist of the compensation of employees, proprietors' income, rental income of persons, corporate profits, and net interest. Domestic income is the factor cost of the .. goods and services attributable to labor and property located in the United States. It equals national income less the net inflow of labor and property incomes from abroad.

Compensation of employees is the income accruing to employees as remuneration for their work. It is the sum of wages and salaries and supplements to wages and salaries.

Wages and salaries consists of the monetary remuneration of employees, including the compensation of corporate officers; commissions, tips, and bonuses; and receipts in kind that represent income to the recipients. It consists of disbursements (1-3) and wage accruals less disbursements (1-4). Disbursements is wages and salaries as just defined except that retroactive wages are counted when paid rather than when earned.

Supplements to wages and salaries consists of employer contributions for social insurance and of other labor income. Employer contributions for social insurance (1-6) includes employer payments under the following programs: Federal old-age, survivors, disability, and hospital insurance; 'State unemployment insurance; railroad retirement and unemployment insurance; government retirement; and publicly administered workmen's compensation. Other labor income (1-7) includes employer contributions to private pension and welfare funds, and directors' fees,

Proprietors' income with inventory valuation and capital consumption adjustments (1-8) is the income, including income in kind, of proprietorships and partnerships and of producers' cooperatives. Interest and dividend income received by proprietors and rental incomes received by persons who are not primarily engaged in the real estate business are excluded. The inventory valuation adjustment is described under corporate profits and the capital consumption adjustment under capital consumption allowances.

Rental income of persons with capital consumption adjustment (1-9) is the income of persons from the rental of real property, except the income of persons primarily engaged in the real estate

business; the imputed net rental income of owner-occupants of nonfarm dwellings; and the royalties received by persons from patents, copyrights, and rights to natural resources. The capital consumption adjustment is described under capital consumption allowances.

Corporate profits with inventory valuation and capital consumption adjustments is the income of corporations organized for profit and of mutual financial institutions that accrues to residents, measured before profits taxes, before deduction of depletion charges, after exclusion of capital gains and losses, and net of dividends received from domestic corporations. Corporate profits includes net inflows from abroad of dividends, reinvested earnings of incorporated foreign affiliates, and earnings of unincorporated foreign affiliates. In other major respects, profits are defined as in Federal income tax regulations. The capital consumption adjustment is described under capital consumption adjustment is described under capital consumption allowances.

Profits before taw is corporate profits without inventory valuation and capital consumption adjustments.

Profits tax liability (1-12) is Federal, State, and local taxes on corporate income.

Profits after tax is profits before tax less profits tax liability. Dividends (1-14) is payments in cash or other assets, excluding stock, by corporations organized for profit to stockholders who are U.S. residents (including State and local social insurance funds). Undistributed profits (1-15) is corporate profits before tax less corporate profit tax liability and less dividends. It may also be viewed as the sum of purchases of fixed capital assets, the change in the book value of corporate inventories, and the net acquisition of financial assets, less the sum of capital consumption allowances, net borowing, and net stock issues.

Inventory valuation adjustment (1-16) is the change in the business inventories component of GNP, which is measured as the change in the physical volume of inventories valued in prices of the current period, less the change in the value of inventories reported by

business (book value). The inventory valuation adjustment converts inventories at historical cost, the valuation concept generally underlying business accounting, to replacement cost, the concept underlying the NIPA's. It is required only for nonfarm inventories; the change in farm inventories is estimated directly. To make the measurement of charges against GNP consistent with GNP, an inventory valuation adjustment must be applied to reported corporate profits and proprietors' income.

Net interest (1-18) is interest paid by business less interest received by it, plus net interest received from abroad. In addition to monetary interest flows, net interest includes flows of interest in kind (imputed interest). The latter have their counterparts in service charges, which are included in personal consumption expenditures and in government purchases.

Business transfer payments (1–20) is payments to persons for which the latter do not perform current services. They include liability payments for personal injury, corporate gifts to nonprofit institutions and bad debts incurred by consumers. Most of personal consumption expenditures is stated before deduction of consumer bad debts; corporate profits and proprietors' income are stated after allowance for bad debts. Accordingly, bad debts have to be entered explicitly among the charges against GNP, and because they are written off rather than collected, they fit into the general category of transfer payments.

Indirect business tax and nontax liability (1-21) consists of tax liabilities (except employer contributions for social insurance) that are chargeable to business expense in the calculation of profit-type incomes, and of certain other business liabilities to government agencies (except government enterprises) that it is convenient to treat like taxes. Indirect business taxes includes sales, excise, and property taxes, and the windfall profit tax on crude oil production. Taxes on corporate income are excluded; these taxes cannot be calculated until profits are known, and in that sense, are not a business expense. Nontaxes includes regulatory and inspection fees, special assessments, fines and penalties, rents and royalties, and donations. Nontaxes generally excludes business purchases from government of goods and services that are similar to business purchases of intermediate products from other businesses. Government receipts from the sale of such products are netted against government purchases so that they do not appear in GNP and other measures of production.

Subsidies less current surplus of government enterprises (1-22). Subsidies is the monetary grants paid by government to business, including government enterprises at another level of government. The current surplus of government enterprises is their sales receipts less their current outlays. In the calculation of their current surplus, no deduction is made for depreciation charges and net interest paid. Subsidies and current surplus are often combined because deficits incurred by government enterprises may result from selling goods to businesses at lower than market prices in lieu of giving them subsidies. This is also the major reason for not counting the current surplus of government enterprises as a profit-type income and, accordingly, as part of factor charges.

Statistical discrepancy (1-28) is GNP less charges against GNP other than the statistical discrepancy. It arises because GNP and charges against GNP are estimated independently by methodologies that are subject to error.

Capital consumption allowances with capital consumption adjustment (1-25). Capital consumption allowances consists of depreciation charges and accidental damage to fixed business capital. For nonfarm business, they are as reported on Federal income tax returns. For farms, nonprofit institutions, and owner-occupied houses, depreciation charges are not based on income tax returns, but instead are calculated to conform to NIPA definitions. Capital consumption adjustment (1-17) for corporations is the tax return-based capital consumption allowances less capital consumption allowances that are based on estimates of uniform service lives,

straight-line depreciation, and replacement cost. Similar adjustments are applied to proprietors' income, and rental income of persons. The capital consumption allowances with capital consumption adjustment for nonprofit institutions serving individuals is the value of the current services of the fixed capital assets owned and used by these institutions; it is included in personal consumption expenditures.

#### Personal income and outlay account

Personal income is the income received by persons from all sources, that is, from participation in production, from transfer payments from government and business, and from government interest, which is treated like a transfer payment. Persons consist of individuals, nonprofit institutions, private noninsured welfare funds, and private trust funds. Proprietors' income is treated in its entirety as received by individuals. Life insurance carriers and private noninsured pension funds are not counted as persons, but their saving is credited to persons. Personal income is the sum of wage and salary disbursements, other labor income, proprietors' income with inventory valuation and capital consumption adjustments, rental income of persons with capital consumption adjustment, personal dividend income, personal interest income, and transfer payments, less personal contributions for social insurance.

Disposable personal income is personal income less personal tax and non-tax payments. It is the income available to persons for spending or saving.

Wage and salary disbursements (see 1-8).

Other labor income (see 1-7).

Proprietors' income with inventory valuation and capital consumption adjustments (see 1-8).

Rental income of persons with capital consumption adjustment (see 1-9).

Personal dividend income is the dividend income of persons from all sources. It equals dividends (see 1-14) less dividends received by government (2-13). Dividends received by government consists of dividends received by State and local government social insurance funds.

Personal interest income is the interest income of persons from all sources. It equals net interest (see 1-18), plus interest paid by government to persons and business (2-16) less interest received by government (2-17) plus interest paid by consumers to business (2-18). The last item consists of all interest paid by individuals in their capacity as consumers, and accordingly excludes interest payments on mortgages and home improvement loans, because homeowners are treated as businesses in the NTPA's. The derivation of personal interest income can be explained as follows: Net interest equals interest paid by producers (in this case, business and U.S. residents supplying property services to abroad) to persons and government less interest received by producers from consumers and government. It therefore falls short of interest received by persons from producers by the amount of interest recrived by producers from consumers and government, and exceeds interest received by persons from producers by the amount of interest received by government from producers. Accordingly, the former is added to net interest, and the latter is deducted, to obtain personal interest income.

Transfer payments to persons is income payments to persons, generally in .. monetary form, for which they do not render current services. It consists of business transfer payments (see 1-20) . and government transfer payments (2-21). Government transfer payments include payments under the following " programs: Federal old-age, survivors, disability, and hospital insurance; supplementary medical insurance; State 4 unemployment insurance; railroad retirement and unemployment insurance; government retirement; workmen's .. compansation; veterans, including veterans life insurance; food stamp; black lung; supplemental security income: ( and direct relief. Government payments to nonprofit institutions, other than for work under research and development contracts, is also included.

Personal contributions for social insurance (2-22) includes payments by employees, self-employed, and other individuals who participate in the following programs: Federal old-age, survivors, disability, and hospital insurance; supplementary medical insurance; State unemployment insurance; railroad retirement insurance; government retirement; and veterans life insurance.

Personal tax and nontax payments (2-1) is tax payments (net of refunds) by persons (except personal contributions for social insurance) that are not chargeable to business expense, and of certain other personal payments to government agencies (except government enterprises) that it is convenient to treat like taxes. Personal taxes includes income, estate and gift, and personal property taxes. Nontaxes includes passport fees, fines and penalties, donations, and tuitions and fees paid to schools and hospitals operated mainly by government.

Personal outlays is the sum of personal consumption expenditures (see 1-26), interest paid by consumers to business (see 2-18), and personal transfer payments to foreigners, net (2-5). The last item is personal remittances in cash and in kind to abroad less such remittances from abroad.

Personal saving (2-6) is personal income less the sum of personal outlays and personal tax and nontax payments. It is the current saving of individuals (including proprietors), nonprofit institutions, private noninsured welfare funds, and private trust funds. Personal saving may also be viewed as the sum of net acquisition of financial assets (such as eash and deposits, securities, and the net equity of individuals in life insurance and in private noninsured pension funds) and physical assets less the sum of net borrowing and of capital consumption allowances with capital consumption adjustment.

## Government receipts and expenditures account

Personal taw and nontax payments (see 2-1).

Corporate profits tax liability (see 1-12).

Indirect business tax and nontax liability (see 1-21).

Contributions for social insurance (see 1-6 and 2-22).

Purchases of goods and services (see 1-40).

Transfer payments is transfer payments to persons (see 2-21) and transfer payments to foreigners, net (3-4). The latter is U.S. Government nonmilitary grants to foreign governments in cash and in kind, and U.S. Government transfer payments, mainly retirement benefits, to former residents of the United States.

Net interest paid is interest paid by government less interest received by government (see 2-17). The former is interest paid to persons and business (see 2-16) and interest paid to foreigners (3-8). Interest paid to foreigners is interest paid by the U.S. Government to foreign businesses, governments, and persons.

Dividends received by government (see 2-18).

Subsidies less current surplus of government enterprises (see 1-22).

Wage accruals less disbursements (see 1-4).

Surplus or deficit (-), national income and product accounts (3-13) is the sum of government expenditures (lines 1, 2, 5, 10, 11, and 12 of account 3) less the sum of government receipts (lines 16, 17, 18, and 19 of account 3). It may also be viewed as the net acquisition of financial assets by government and government enterprises, and net government purchases of land and of rights to Government-owned land including oil resources.

#### Foreign transactions account

Imports of goods and services (see 1-39).

Transfer payments to foreigners (see 2-5 and 3-4).

Interest paid by government to foreigners (see 3-8).

Net foreign investment (4-8) is U.S. exports of goods and services and capital grants received by the United States, net (see below), less imports of goods and services by the United States, transfer payments to foreigners (net), and U.S. Government interest paid to foreigners. It may also be viewed as the acquisition of foreign assets by U.S. residents less the acquisition of U.S.

assets by foreign residents. It includes the statistical discrepancy in the detailed balance of payments accounts.

Exports of goods and services (see 1-38).

Capital grants received by the United States, net (4-2) is mainly the allocation of Special Drawing Rights to the United States.

#### Gross saving and investment account

Personal saving (see 2-6).

Wage accruals less disbursements (see 1-4).

Undistributed corporate profits with inventory valuation and capital consumption adjustments (see 1-15, 1-16, and 1-17).

Capital consumption allowances with capital consumption adjustment (see 1-25).

Government surplus or deficit (-), national income and product accounts (see 3-13).

Capital grants received by the United States, net (see 4-2).

Statistical discrepancy (see 1-23).

Gross private domestic investment (see 1-30).

Net foreign investment (see 4-8).

#### **Definitions of Sectors**

In addition to the breakdowns of GNP that appear in the five-account summary of the NIPA's, GNP can be broken down by sectors—business, households and institutions, government, and the rest of the world.

Business consists of all organizations located in the United States that produce goods and services for sale at a price intended at least to approximate costs of production. In the main, it covers private enterprises organized for profit, both corporate and noncorporate. Mutual financial institutions, private noninsured pension funds, cooperatives, nonprofit organizations serving business, Federal Reserve banks, and federally sponsored credit agencies are also included, as well as government enterprises. Owner-occupied housing, and buildings and equipment owned and used by nonprofit institutions serving individuals, are considered to be business organizations selling their current services to their owners.

The production of the business sector can be measured either in terms of the value of the goods and services it produces in the United States or in terms of the costs incurred and the profits earned in its production.

Households and institutions consists

of households of families and unrelated individuals, nonprofit institutions serving individuals, private trust funds, and private noninsured welfare funds; the coverage is the same as that of persons as defined in the NIPA's. Production is measured by the compensation of employees.

Government consists of Federal and

State and local government agencies except government enterprises. Production is measured by the compensation of employees.

Rest of the world consists of foreigners as transactors with U.S. residents. Production is measured by net inflows of labor and property incomes from abroad.